

2019 SPRING SEMESTER MAIN MISSOURI S&T CAMPUS CLASS OFFERINGS

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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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	Unger,B	
		1.0- 1.0	LEC	1B	W	02:00 - 02:50 pm	HARR	00208	Unger,B	
		1.0- 1.0	70037	LAB	3A	Th	03:30 - 05:30 pm	BCH	00120	Unger,B
		1.0- 1.0	70039	LAB	3B	Th	03:30 - 05:30 pm	BCH	00120	Unger,B
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	Unger,B
3120	Air Force Leadership Studies II	1.0- 1.0	71466	LAB	3B	Th	03:30 - 05:30 pm	BCH	00120	Unger,B
		3.0- 3.0	LEC	1A	T	03:00 - 05:30 pm	HARR	00208	Unger,B	
4120	National Security Affairs/Preparation For Active Duty II	3.0- 3.0	70043	LAB	3A	Th	03:30 - 05:30 pm	BCH	00120	Unger,B
		3.0- 3.0	LEC	1A	T	05:30 - 08:00 pm	HARR	00208	Unger,B	
		3.0- 3.0	70045	LAB	3A	Th	03:30 - 05:30 pm	BCH	00120	Unger,B

Aerospace Engineering

2360	Dynamics Prerequisite: Grade of "C" or better in each of Civ Eng 2200, Math 2222. (Co-listed with Mech Eng 2360)	3.0- 3.0	71017	LEC	1A	MWF	09:00 - 09:50 am	TMH	00254	Abbas,M	
										Prerequisite	
		3.0- 3.0	71018	LEC	1B	TTh	12:30 - 01:45 pm	BERTELS	00B10	Kumar,N	
										Prerequisite	
		3.0- 3.0	72193	LEC	1C	TTh	02:00 - 03:15 pm	TMH	00199	Du,X	
2780	Introduction to Aerospace Design Prerequisite: A grade of "C" or better in Aero Eng 2861.			LEC	1A	F	08:00 - 08:50 am	EMGT	00103	Meeks,W	
										Prerequisite	
		2.0- 2.0	70001	LAB	3A	M	01:00 - 03:00 pm	ARR		Meeks,W	
											Prerequisite
		2.0- 2.0	70002	LAB	3B	M	03:00 - 05:00 pm	ARR		Meeks,W	
											Prerequisite
		2.0- 2.0	72464	LAB	3C	M	05:00 - 07:00 pm	ARR		Meeks,W	
											Prerequisite
		2.0- 2.0	72465	LAB	3D	T	01:00 - 03:00 pm	ARR		Meeks,W	
											Prerequisite
2.0- 2.0	72466	LAB	3E	T	03:00 - 05:00 pm	ARR		Meeks,W			
									Prerequisite		
2.0- 2.0	72467	LAB	3F	W	01:00 - 03:00 pm	ARR		Meeks,W			
									Prerequisite		
2.0- 2.0	72468	LAB	3G	W	03:00 - 05:00 pm	ARR		Meeks,W			
									Prerequisite		
2790	Introduction to Spacecraft Design Prerequisite: A grade "C" or better in Aero Eng 2861.	2.0- 2.0		LEC	1A	M	12:00 - 12:50 pm	H-SS	000G5	Davis,J	
										Field Trip Required	
		2.0- 2.0	72933	LAB	3A	M	03:00 - 04:50 pm	ARR		Davis,J	
											Field Trip Required
		2.0- 2.0	72934	LAB	3B	T	03:00 - 04:50 pm	ARR		Schmid,C	
									Field Trip Required		
2.0- 2.0	73479	LAB	3C	W	03:00 - 04:50 pm	ARR		Schmid,C			
									Field Trip Required		
2.0- 2.0	73480	LAB	3D	W	05:00 - 06:50 pm	ARR		Davis,J			
									Field Trip Required		
2861	Aerospace Vehicle Performance Prerequisite: A grade of "C" or better in each of the following: Math 1215 or Math 1221; Physics 1135 or Physics 1111.	3.0- 3.0	71321	LEC	1A	MWF	08:00 - 08:50 am	MCNT	00204	Riggins,D	
										Prerequisite	
3002	Cooperative Engineering Training	0.0- 6.0	70003	IND	6A	ARR	ARR	ARR		Isaac,K	
3171	Aerodynamics II Prerequisite: "C" or better in Aero Eng 3131 and Mech Eng 2519.	3.0- 3.0	70006	LEC	1A	TTh	02:00 - 03:15 pm	BERTELS	00112B		
										Prerequisite	
				LEC	1A	TTh	02:00 - 03:15 pm	BERTELS	00112A	Hosder,S	
										Prerequisite	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3251 Aerospace Structures I 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.	3.0- 3.0	70004	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00204	Schmidt,J
									Prerequisite
3361 Flight Dynamics and Control Prerequisites: Aero Eng 3613, Aero Eng 3131, and accompanied or preceded by Aero Eng 2780.	3.0- 3.0	70005	LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00112B	
									Prerequisite
			LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00112A	DeMars,K
									Prerequisite
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
	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 Aerospace Systems Design II Prerequisite: Aero Eng 4780.	3.0- 3.0	70007	LAB	3A	MWF	03:00 - 04:50 pm	TMH	00295	Meeks,W
									Prerequisite
4791 Spacecraft Design II Prerequisites: Aero Eng 4790 for Aero Eng majors; consent of instructor for non-Aero Eng majors.	3.0- 3.0	70015	LAB	3A	TTh	03:30 - 04:45 pm	TMH	00315	Pernicka,H
									Prerequisite
4882 Experimental Methods in Aerospace Engineering I Prerequisites: Aero Eng 3131 and Elec Eng 2800.	2.0- 2.0	70008	LAB	3A	T	08:00 - 08:50 am	BERTELS	00112B	
									Prerequisite
			LAB	3A	T	08:00 - 08:50 am	BERTELS	00112A	
									Prerequisite
			LAB	3A	M	10:30 - 12:00 pm	ARR		Vuruskan,A
									Prerequisite
	2.0- 2.0	70009	LAB	3B	T	08:00 - 08:50 am	BERTELS	00112B	
									Prerequisite
			LAB	3B	T	08:00 - 08:50 am	BERTELS	00112A	
									Prerequisite
			LAB	3B	M	01:00 - 02:30 pm	ARR		Vuruskan,A
									Prerequisite
	2.0- 2.0	71365	LAB	3C	T	08:00 - 08:50 am	BERTELS	00112B	
									Prerequisite
			LAB	3C	T	08:00 - 08:50 am	BERTELS	00112A	
									Prerequisite
			LAB	3C	M	02:30 - 04:00 pm	ARR		Vuruskan,A
									Prerequisite
	2.0- 2.0	71366	LAB	3D	T	08:00 - 08:50 am	BERTELS	00112A	
									Prerequisite
			LAB	3D	T	08:00 - 08:50 am	BERTELS	00112B	
									Prerequisite
			LAB	3D	T	03:30 - 05:00 pm	ARR		Vuruskan,A
									Prerequisite
	2.0- 2.0	72002	LAB	3E	T	08:00 - 08:50 am	BERTELS	00112A	
									Prerequisite
			LAB	3E	T	08:00 - 08:50 am	BERTELS	00112B	
									Prerequisite
			LAB	3E	W	10:30 - 12:00 pm	ARR		Vuruskan,A
									Prerequisite
	2.0- 2.0	72003	LAB	3F	T	08:00 - 08:50 am	BERTELS	00112B	
									Prerequisite
			LAB	3F	T	08:00 - 08:50 am	BERTELS	00112A	
									Prerequisite
			LAB	3F	W	01:00 - 02:30 pm	ARR		Vuruskan,A
									Prerequisite

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	2.0- 2.0	72004	LAB	3G	T	08:00 - 08:50 am	BERTELS	00112B		
			Prerequisite							
			LAB	3G	T	08:00 - 08:50 am	BERTELS	00112A		
			Prerequisite							
			LAB	3G	W	02:30 - 04:00 pm	ARR		Vuruskan,A	
			Prerequisite							
	2.0- 2.0	72005	LAB	3H	T	08:00 - 08:50 am	BERTELS	00112B		
			Prerequisite							
			LAB	3H	T	08:00 - 08:50 am	BERTELS	00112A		
			Prerequisite							
			LAB	3H	Th	03:30 - 05:00 pm	ARR		Vuruskan,A	
			Prerequisite							
4885	Assessment	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	Special Problems	0.0- 6.0	71445	IND	6A	ARR	ARR	ARR		Isaac,K
5234	Stability of Engineering Structures	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	Fracture Mechanics	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	Introduction to Composite Materials & Structures	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	Aeroelasticity	3.0- 3.0	72760	LEC	1A	Th	04:00 - 06:30 pm	EECH	00239	Pitt,D
	Prerequisites: Aero Eng 3251 and 3171.									
5478	Mechatronics	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	Advanced Thermodynamics	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)									
5535	Aerospace Propulsion Systems	3.0- 3.0	70013	LEC	1A	MWF	09:00 - 09:50 am	TMH	00249	Riggins,D
	Prerequisite: Aero Eng 4535.									
5760	Probabilistic Engineering Design	3.0- 3.0	71277	LEC	1A	CANCELLED				
	Prerequisite: Mech Eng 3708 or Aero Eng 3361. (Co-listed with Mech Eng 5760)									
5830	Applied Computational Methods	3.0- 3.0	71669	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00121	Hosder,S
	Prerequisite: Comp Sci 1570 or 1970 or 1981; Math 3304. (Co-listed with Mech Eng 5830)									
6001	Special Topics	3.0- 3.0	73505	LEC	1A	MWF	09:00 - 09:50 am	LIB	000G14	Homan,K
	Prerequisites: Mech Eng 5131 or Aero Eng 5131; Mech Eng 5139 or Aero eng 5139									
6040	Oral Examination	0.0- 0.0	70035	IND	6A	ARR	ARR	ARR		
	Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.									
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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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)	0.0-15.0	70034	IND	6M	ARR	ARR	ARR		Pernicka,H
	0.0-15.0	73037	IND	6N	ARR	ARR	ARR		Riggins,D
	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	
2103 Architectural Materials And Methods Of Construction Prerequisites: Chem 1310, Chem 1319 and Sophomore standing.	3.0- 3.0	71124	LAB	3B	Th	04:00 - 05:50 pm	BCH	00115	
	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	BCH	00318	Gillis,W
			All-digital class materials at significant savings Low Cost/No Cost Affordable Educational Resources						
	3.0- 3.0	71460	LAB	3A	T	06:00 - 08:00 pm	BCH	00110	Gillis,W
3201 Structural Analysis I	3.0- 3.0		LAB	3B	W	06:00 - 08:00 pm	BCH	00110	Gillis,W
			Prerequisite						
	3.0- 3.0	70048	LEC	1A	TTh	09:30 - 10:20 am	BCH	00318	Abdulazeez,M
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		LAB	3A	Th	12:30 - 03:15 pm	BCH	00318	Abdulazeez,M
			Prerequisite						
	3.0- 3.0	70050	LEC	1A	MW	12:00 - 12:50 pm	BERTELS	00112A	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	12:00 - 12:50 pm	BERTELS	00112B	
			Prerequisite						
	3.0- 3.0	70052	LAB	3A	F	01:00 - 03:50 pm	H-SS	000G5	Yan,G
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	LAB	3A	M	01:00 - 03:50 pm	BCH	00120	Yan,G
			Prerequisite						
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
			Prerequisite						

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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
									Prerequisite
4820 Building Lighting Systems Prerequisites: Arch Eng 3804 and Physics 2135.	3.0- 3.0	70046	LEC	1A	MWF	09:00 - 09:50 am	BCH	00121	Baur,S
									Prerequisite
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
									Prerequisite
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
									Prerequisite
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
									Prerequisite
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
									Prerequisite

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
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	CANCELLED				
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
									Prerequisite
	3.0- 3.0	72977	LAB	3A	Th	12:30 - 01:45 pm	CH	00213	Myers,L
									Prerequisite
3203 Architectural Design I Prerequisite: Sophomore standing.	3.0- 3.0		LEC	1A	T	02:00 - 02:50 pm	BCH	00315	Baur,S
									Prerequisite
	3.0- 3.0	71789	LAB	3A	MW	03:00 - 05:50 pm	BCH	0320	Baur,S
									Prerequisite
	3.0- 3.0	71790	LAB	3B	TTh	03:00 - 05:50 pm	BCH	0320	Pickerill,H
									Prerequisite

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3221 Fundamentals in Photography Prerequisite: Art 1180 or Art 1185	3.0- 3.0	71402	LEC	1A	W	06:00 - 09:00 pm	CSF	00114	Rupert,B
(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	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
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Art

4000 Special Problems	0.0- 6.0	73636	IND	6A	ARR	ARR	ARR		Myers,L
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Arts, Languages & Philosophy

1001 Special Topics	5.0- 5.0	73397	LEC	1A	ARR	ARR	ARR		Ivliyeva,I
			Chinese II						
			UM Shared Course-Secondary						
2001 Special Topics	3.0- 3.0	73668	LEC	1A	ARR	ARR	ARR		Francis,L
			Arts Ent - Mus Bus Dif Cu/Ind						
			UM Shared Course-Secondary						
4397 Multidisciplinary Studies Capstone Prerequisite: Senior status.	3.0- 3.0	71940	LEC	1A	ARR	ARR	ARR		Haynes,W

Biological Sciences

1113 General Biology Prerequisite: Entrance requirements.	3.0- 3.0	70089	LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00112A	
			MOTR BIOL 100: Essentials in Biology						
			MOTR BIOL 100L: Essentials in Biology with Lab						
			LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00112B	
			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
			All-digital class materials at significant savings						
			MOTR BIOL 100: Essentials in Biology						
1219 General Biology Lab Prerequisite: Preceded or accompanied by either Bio Sci 1113 or Bio Sci 1213.	2.0- 2.0		LEC	1A	M	02:00 - 02:50 pm	SHNK	00111	
			MOTR BIOL 100L: Essentials in Biology with Lab						
			MOTR BIOL 150L: Biology with Lab						
			Prerequisite						
	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						
			Prerequisite						
	2.0- 2.0		LEC	1C	CANCELLED				
	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						
			Prerequisite						
	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						
			Prerequisite						
	2.0- 2.0	73541	LAB	3C	CANCELLED				
1223 Biodiversity	3.0- 3.0	71981	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00120	Wilson,T
			All-digital class materials at significant savings						
1229 Biodiversity Lab Prerequisite: Preceded or accompanied by Biodiversity (Bio Sci 1223)	1.0- 1.0	71279	LAB	3A	T	02:00 - 04:50 pm	SHNK	00111	Wilson,T
			All-digital class materials at significant savings						
			Prerequisite						
	1.0- 1.0	72668	LAB	3B	T	06:00 - 08:50 pm	SHNK	00111	Wilson,T
			All-digital class materials at significant savings						
			Prerequisite						
	1.0- 1.0	71406	LAB	3C	CANCELLED				
2213 Cell Biology Prerequisites: Preceded or accompanied by CHEM 1320.	3.0- 3.0	71169	LEC	1A	MWF	11:00 - 11:50 am	CS	00207	Shannon,K
			Communication Emphasized						
			Prerequisite						

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						
			Prerequisite						
	1.0- 1.0	71754	LAB	3B	Th	06:00 - 07:50 pm	SHNK	00111	Wilson,T
			Prerequisite						
	1.0- 1.0	73639	LAB	3C	W	02:00 - 03:50 pm	SHNK	00111	Wilson,T
			Prerequisite						
2223 General Genetics Prerequisite: Bio Sci 1113 or 1213.	3.0- 3.0	72244	LEC	1A	MWF	11:00 - 11:50 am	MCNT	00216	Frank,R
			Prerequisite						
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
			Prerequisite						
2263 Ecology	3.0- 3.0	72605	LEC	1A	TTh	12:30 - 01:45 pm	IDE	00202	Niyogi,D
			All-digital class materials at significant savings						
			Prerequisite						
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
			Prerequisite						
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
			All-digital class materials at significant savings						
			Low Cost/No Cost Affordable Educational Resources						
3313 Microbiology Prerequisite: Chem 1320.	3.0- 3.0	70092	LEC	1A	MWF	09:00 - 09:50 am	BCH	00315	Westenberg,D
			Prerequisite						
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
			Prerequisite						
	2.0- 2.0	71111	LAB	3B	TTh	02:00 - 03:50 pm	SHNK	000G7	Westenberg,D
			Prerequisite						
	2.0- 2.0	72985	LAB	3C	TTh	05:00 - 07:00 pm	SHNK	000G7	Westenberg,D
			Prerequisite						
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
			Prerequisite						
3349 Human Anatomy and Physiology II Laboratory Prerequisite: Preceded or accompanied by Bio Sci 3343.	1.0- 1.0	71639	LAB	3A	CANCELLED				
	1.0- 1.0	71692	LAB	3B	W	05:00 - 07:50 pm	SHNK	00313	Havens,S
			Prerequisite						
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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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
									Prerequisite
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	CS	00203	Mormile,M
									Prerequisite
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
									Prerequisite
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
	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	ARR		Westenberg,D
5040 Oral Examination	0.0- 0.0	71301	IND	6A	ARR	ARR	ARR		Duvernell,D
5099 Graduate Research	0.0-15.0	71039	IND	6A	ARR	ARR	ARR		Duvernell,D
	0.0-15.0	70980	IND	6B	ARR	ARR	ARR		Frank,R
	0.0-15.0	71109	IND	6C	ARR	ARR	ARR		Hou,C
	0.0-15.0	71092	IND	6D	ARR	ARR	ARR		Huang,Y
	0.0-15.0	70100	IND	6E	ARR	ARR	ARR		Mormile,M
	0.0-15.0	70101	IND	6F	ARR	ARR	ARR		Niyogi,D
	0.0-15.0	70102	IND	6G	ARR	ARR	ARR		Semon,J
	0.0-15.0	70103	IND	6H	ARR	ARR	ARR		Shannon,K
	0.0-15.0	71643	IND	6J	ARR	ARR	ARR		Thimgan,M
	0.0-15.0	72842	IND	6K	ARR	ARR	ARR		Verble,R
	0.0-15.0	73401	IND	6L	ARR	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
									Prerequisite
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
									Prerequisite
5353 Developmental Biology Prerequisite: Bio Sci 2213.	3.0- 3.0	73219	LEC	1A	TTh	12:30 - 01:45 pm	CH	00104	Shannon,K
									Prerequisite
5433 Neurobiology Prerequisite: Bio Sci 2213.	3.0- 3.0	72670	LEC	1A		CANCELLED			
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		Thimgan,M
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	CS	00203	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
		3.0- 3.0	71631	LEC 1B	MWF	03:00 - 03:50 pm	FUL	00227	Harvey,E
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	BCH	00213	Stanley,S
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	CS	00209	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	BCH	00213	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	Wilkerson,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	Smith,J
3001	Special Topics Prerequisites: Junior Standing in ceramic or metallurgical engineering.	3.0- 3.0	73623	LEC 1A	MWF	11:00 - 11:50 am	MCNT	00245	Schwartz,R
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	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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
									Prerequisite
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
									Prerequisite
	2.0- 2.0	73570	LAB	3A	M	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
									Prerequisite
	2.0- 2.0	73571	LAB	3B	M	04:00 - 06:00 pm	Glass Shop	000G3	Reidmeyer,M
									Prerequisite
	2.0- 2.0	73572	LAB	3C	T	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
									Prerequisite
	2.0- 2.0	73573	LAB	3D	T	04:00 - 06:00 pm	Glass Shop	000G3	Reidmeyer,M
									Prerequisite
	2.0- 2.0	73574	LAB	3E	W	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
									Prerequisite
	2.0- 2.0	73575	LAB	3F	W	04:00 - 06:00 pm	Glass Shop	000G3	Reidmeyer,M
									Prerequisite
3325 Ceramic Processing Lab II	2.0- 2.0		LEC	1A	ARR	ARR	ARR		Wilkerson,K
									Prerequisite
	2.0- 2.0	70108	LAB	3A	T	01:00 - 04:50 pm	EMGT	00102	Wilkerson,K
									Additional meeting time to be arranged.
									Prerequisite
	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	Fahrenholtz,W
									Additional meeting time to be arranged.
									Prerequisite
3410 Characterization Of Inorganic Solids Prerequisite: "C" or better grade in either Cer Eng 2110 or Met Eng 2110 or a similar introductory course on structure of solids	3.0- 3.0	71251	LEC	1A	MWF	12:00 - 12:50 pm	MCNT	00211	Miller,F
									Prerequisite
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		Fahrenholtz,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 Prerequisite: "C" or better in either Cer Eng 4096 or Met Eng 4096. (Co-listed with Met Eng 4097)	3.0- 3.0	70111	LAB	3A	MWF	11:00 - 11:50 am	MCNT	00212	Schlesinger,M
									Additional meeting time to be arranged.
									Prerequisite
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		Fahrenholtz,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 Prerequisite: A grade of "C" or better in Civ Eng 2210.	3.0- 3.0	71058	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00212	Hilmas,G
									Prerequisite
4240 Electrical Properties Of Ceramics Prerequisite: "C" or better in Physics 2305.	3.0- 3.0	71864	LEC	1A	MWF	09:00 - 09:50 am	CS	00207	Huebner,W
									Prerequisite
4410 Introduction to Integrated Computational Materials Engineering Prerequisites: A grade of "C" or better in both Cer Eng 3220 and Math 3304, and in either Cer Eng 2110 or Met Eng 2110.	3.0- 3.0		LEC	1A	T	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
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

CATALOG #	COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5040	Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 6.0 0.0- 0.0	71312 70131	IND	6C 6A	ARR	ARR	ARR		Smith,J Moats,M
5250	Refractories Prerequisite: Cer Eng 3230.	3.0- 3.0	71675	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00210	Smith,J
6050	Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70132	IND	6A	ARR	ARR	ARR		Moats,M
6085	Internship DE students only.	0.0-15.0	70130	IND	6A	ARR	ARR	ARR		
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
		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
6410	Advanced Integrated Computational Materials Engineering Prerequisite: A grade of "B" or better grade in Math 3304.	3.0- 3.0 3.0- 3.0	72807	LEC LAB	1A 3A	T Th	09:30 - 10:45 am 09:30 - 10:45 am	MCNT MCNutt	00114 234	Zhou,C 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
				All-digital class materials at significant savings						
				Prerequisite						
2300	Chemical Process Materials Prerequisites: Physics 1135.	1.0- 1.0	73155	LEC	1A	M	03:00 - 03:50 pm	H-SS	000G5	Park,J
				All-digital class materials at significant savings						
				Prerequisite						
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
				Prerequisite						
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	00112A	Rezaei,F
				All-digital class materials at significant savings						
				Prerequisite						
				LEC	1A	TTh	12:30 - 01:45 pm	BERTELS	00112B	
				All-digital class materials at significant savings						
				Prerequisite						
				LEC	1A	W	05:00 - 05:50 pm	BERTELS	00112B	
				All-digital class materials at significant savings						
				Prerequisite						
				LEC	1A	W	05:00 - 05:50 pm	BERTELS	00112A	
				All-digital class materials at significant savings						
				Prerequisite						
3111	Numerical Computing in Chemical and Biochemical Engineering	3.0- 3.0 3.0- 3.0		LEC	1A 1B	ARR	ARR			Luks,C Luks,C
				Prerequisite						
				LEC	1B	ARR	ARR			
				Prerequisite						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	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.							
	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.							
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
				All-digital class materials at significant savings Low Cost/No Cost Affordable Educational Resources Chem Eng Majors Only						
				Prerequisite						
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
				Prerequisite						
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						
				Prerequisite						
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	00112B	
				LEC	1A	MWF	01:00 - 01:50 pm	BERTELS	00112A	Liang,X
				Prerequisite						
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	EECH	00G31	Barua,S
				Prerequisite						
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	MCNT	00206	Wang,J
				Prerequisite						
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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	71731	IND	6L	ARR	ARR	ARR		Rownaghi,A
			Prerequisite						
	0.0- 6.0	71749	IND	6M	ARR	ARR	ARR		Smith,J
			Prerequisite						
	0.0- 6.0	71766	IND	6N	ARR	ARR	ARR		Wang,J
			Prerequisite						
	0.0- 6.0	72091	IND	6P	ARR	ARR	ARR		Westenberg,D
			Prerequisite						
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
			All-digital class materials at significant savings						
			Prerequisite						
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
			Communication Emphasized						
			Prerequisite						
	3.0- 3.0	71616	LAB	3A	MWF	11:00 - 12:50 pm	PHYS	00104	Luks,C
			Communication Emphasized						
			Prerequisite						
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.						
			See 'Notes'-Additional Meeting						
			Prerequisite						
	2.0- 2.0	71646	LAB	3A	T	09:00 - 11:50 am	Lab	00124	Ryan,P
			See 'Notes'-Additional Meeting						
			Prerequisite						
	2.0- 2.0	72601	LAB	3B	T	02:00 - 04:50 pm	Ctl Lab	124	Ryan,P
			Prerequisite						
	2.0- 2.0	72602	LAB	3C	Th	09:00 - 11:50 am	Lab	00124	Ryan,P
			Prerequisite						
	2.0- 2.0	73434	LAB	3D	Th	02:00 - 04:50 pm	Lab	00124	Ryan,P
			Prerequisite						
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
			Prerequisite						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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 Prerequisite
	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. Prerequisite
	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. All-digital class materials at significant savings See 'Notes'-Additional Meeting Communication Emphasized Prerequisite
	3.0- 3.0	71648	LAB	3A	TTh	09:00 - 11:50 am	Lab	00124	Rownaghi,A
									See 'Notes'-Additional Meeting Communication Emphasized Prerequisite
	3.0- 3.0	72604	LAB	3B	TTh	02:00 - 04:50 pm	Lab	00124	Rownaghi,A
									Communication Emphasized Prerequisite
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
									Prerequisite
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. All-digital class materials at significant savings Communication Emphasized Prerequisite
	3.0- 3.0	70140	LAB	3A	TTh	09:00 - 09:50 am	Lab	00124	Rownaghi,A
									See 'Notes'-Additional Meeting Communication Emphasized Prerequisite
	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
									Prerequisite
4540 Energy Economics Prerequisites: Econ 2100. (Co-listed with Econ 4540)	3.0- 3.0	73592	LEC	1A	MWF	11:00 - 11:50 am	TMH	00249	Smith,J
									Prerequisite

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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
	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
									Prerequisite
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
									Prerequisite
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
									Prerequisite
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
									Prerequisite
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
									Prerequisite
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	3.0- 3.0	73443	LEC	1A	MWF	04:00 - 04:50 pm	CH	00103	Barua,S
									Adv Pharmaceutical Engineering
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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6110 Advanced Transport Phenomena Prerequisite: Chem Eng 5100.	0.0-15.0	71753	IND	6N	ARR	ARR	ARR		Westenberg,D
	0.0-15.0	73632	IND	6P	ARR	ARR	ARR		Okoronkwo,M
	3.0- 3.0	70160	LEC	1A	MWF	02:00 - 02:50 pm	BERTELS	00B12A	Park,J
6180 Advanced Applications of Computational Fluid Dynamics Prerequisites: Chem Eng 4150 and Chem Eng 5100.	3.0- 3.0	73591	LEC	1A	MWF	01:00 - 01:50 pm	EECH	00111	Smith,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
						Meets only first three weeks of semester.			
1310 General Chemistry I Prerequisite: Entrance requirements.	1.0- 1.0	72582	LEC	1B	MTWThF	08:00 - 08:50 am	SHNK	000G3	Whitefield,P
						Meets only first three weeks of semester.			
1310 General Chemistry I Prerequisite: Entrance requirements.	4.0- 4.0	70173	LEC	1AA	MW	10:00 - 10:50 am	SHNK	000G3	Winiarz,J
						All-digital class materials at significant savings See 'Notes'-Additional Meeting MOTR CHEM 150: Chemistry I MOTR CHEM 150L: Chemistry I with Lab			
1310 General Chemistry I Prerequisite: Entrance requirements.	4.0- 4.0	71775	LEC	1BB	MW	10:00 - 10:50 am	SHNK	000G3	Winiarz,J
						All-digital class materials at significant savings See 'Notes'-Additional Meeting MOTR CHEM 150: Chemistry I MOTR CHEM 150L: Chemistry I with Lab			
1310 General Chemistry I Prerequisite: Entrance requirements.	4.0- 4.0	72590	LEC	1CC	MW	10:00 - 10:50 am	ARR		Winiarz,J
						All-digital class materials at significant savings MOTR CHEM 150: Chemistry I MOTR CHEM 150L: Chemistry I with Lab			
1310 General Chemistry I Prerequisite: Entrance requirements.	4.0- 4.0	72591	LEC	1DD	MW	10:00 - 10:50 am	ARR		Winiarz,J
						All-digital class materials at significant savings MOTR CHEM 150: Chemistry I MOTR CHEM 150L: Chemistry I with Lab			
1310 General Chemistry I Prerequisite: Entrance requirements.	0.0- 0.0	70174	RSD	2A1	T	08:00 - 09:50 am	CSF	00G5E	Winiarz,J
						MOTR CHEM 150: Chemistry I MOTR CHEM 150L: Chemistry I with Lab			
1310 General Chemistry I Prerequisite: Entrance requirements.	0.0- 0.0	70175	RSD	2A2	T	09:00 - 10:50 am	TMH	00250	Winiarz,J
						MOTR CHEM 150: Chemistry I MOTR CHEM 150L: Chemistry I with Lab			
1310 General Chemistry I Prerequisite: Entrance requirements.	0.0- 0.0	70176	RSD	2A3	T	10:00 - 11:50 am	EECH	00104	Winiarz,J
						MOTR CHEM 150: Chemistry I MOTR CHEM 150L: Chemistry I with Lab			
1310 General Chemistry I Prerequisite: Entrance requirements.	0.0- 0.0	70177	RSD	2A4	T	11:00 - 12:50 pm	CS	00203	Winiarz,J
						See 'Notes' for Class Schedule MOTR CHEM 150: Chemistry I MOTR CHEM 150L: Chemistry I with Lab			
1310 General Chemistry I Prerequisite: Entrance requirements.	0.0- 0.0	71447	RSD	2A5	T	12:00 - 01:50 pm	EECH	00104	Winiarz,J
						MOTR CHEM 150: Chemistry I MOTR CHEM 150L: Chemistry I with Lab			
1310 General Chemistry I Prerequisite: Entrance requirements.	0.0- 0.0	71448	RSD	2A6	T	01:00 - 02:50 pm	CS	00203	Winiarz,J
						MOTR CHEM 150: Chemistry I MOTR CHEM 150L: Chemistry I with Lab			
1310 General Chemistry I Prerequisite: Entrance requirements.	0.0- 0.0	71449	RSD	2B1	ARR	ARR	ARR		Winiarz,J
						MOTR CHEM 150: Chemistry I MOTR CHEM 150L: Chemistry I with Lab			
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	
						MOTR CHEM 150L: Chemistry I with Lab Prerequisite			
1319 General Chemistry Laboratory Prerequisite: Preceded or accompanied by both Chem 1310 and Chem 1100.	1.0- 1.0	71113	LAB	3B1	T	01:00 - 03:50 pm	SHNK	00201	
						MOTR CHEM 150L: Chemistry I with Lab Prerequisite			
1319 General Chemistry Laboratory Prerequisite: Preceded or accompanied by both Chem 1310 and Chem 1100.	1.0- 1.0	70179	LAB	3C1	W	01:00 - 03:50 pm	SHNK	00201	
						MOTR CHEM 150L: Chemistry I with Lab Prerequisite			
1319 General Chemistry Laboratory Prerequisite: Preceded or accompanied by both Chem 1310 and Chem 1100.	1.0- 1.0	72252	LAB	3D1	W	01:00 - 03:50 pm	SHNK	00201	
						MOTR CHEM 150L: Chemistry I with Lab Prerequisite			

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	1.0- 1.0	70180	LAB	3E1	Th	01:00 - 03:50 pm	SHNK	00201		
			MOTR CHEM 150L: Chemistry I with Lab							
			Prerequisite							
	1.0- 1.0	70181	LAB	3F1	Th	01:00 - 03:50 pm	SHNK	00201		
			MOTR CHEM 150L: Chemistry I with Lab							
			Prerequisite							
1320	General Chemistry II	3.0- 3.0	70182	LEC	1A	TTh	09:30 - 10:45 am	SHNK	000G3	Stavropoulos,P
	Prerequisites: Chem 1310 with a grade of "C" or better and Chem 1319.									
1510	Qualitative Analysis	2.0- 2.0	70184	LAB	3A	TTh	11:30 - 12:20 pm	SHNK	00305	Switzer,J
	Prerequisite: Preceded or accompanied by both Chem 1320 and Chem 1100.									
		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	
			Prerequisite							
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	4.0- 4.0	71372	LEC	1A	TTh	12:30 - 01:45 pm	SHNK	000G3	Sotiriou-Leventis,C
	Prerequisites: Chem 1310, 1319, 1320; or Chem 1351.									
				LEC	1A	W	01:00 - 01:50 pm	SHNK	000G3	
			Prerequisite							
2219	Organic Chemistry I Lab	1.0- 1.0	71777	LAB	3A	W	06:00 - 06:50 pm	SHNK	00305	Bone,T
	Prerequisites: Preceded or accompanied by Chem 2210 and Chem 1100.									
				LAB	3A	W	07:00 - 08:50 pm	SHNK	00303	
			Prerequisite							
		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	
			Prerequisite							
		1.0- 1.0	72851	LAB	3D	T	02:00 - 02:50 pm	SHNK	00305	Bone,T
				LAB	3D	T	03:00 - 04:50 pm	SHNK	00303	
			Prerequisite							
		1.0- 1.0	73030	LAB	3E	F	02:00 - 02:50 pm	SHNK	00305	Bone,T
				LAB	3E	F	03:00 - 04:50 pm	SHNK	00303	
			Prerequisite							
2220	Organic Chemistry II	4.0- 4.0	70186	LEC	1A	TTh	08:00 - 09:15 am	MCNT	00204	Reddy,V
	Prerequisites: Grade of "C" or better in Chem 2210.									
				LEC	1A	W	01:00 - 01:50 pm	MCNT	00204	
			Prerequisite							
2229	Organic Chemistry II Lab	1.0- 1.0	70187	LAB	3A	W	02:00 - 02:50 pm	SHNK	00305	Bone,T
	Prerequisites: Chem 2219 or Chem 2289, preceded or accompanied by both Chem 2220 and Chem 1100.									
				LAB	3A	W	03:00 - 04:50 pm	SHNK	00303	
			Communication Emphasized							
			Prerequisite							
		1.0- 1.0	71143	LAB	3B	Th	02:00 - 02:50 pm	SHNK	00305	Bone,T
			Communication Emphasized							
			Prerequisite							
				LAB	3B	Th	03:00 - 04:50 pm	SHNK	00303	
			Communication Emphasized							
			Prerequisite							
		1.0- 1.0	73601	LAB	3C	Th	06:00 - 06:50 pm	SHNK	00305	Bone,T
			Communication Emphasized							
			Prerequisite							
				LAB	3C	Th	07:00 - 08:50 pm	SHNK	00303	
			Communication Emphasized							
			Prerequisite							
		1.0- 1.0	73604	LAB	3D	T	06:00 - 06:50 pm	SHNK	00305	Bone,T
			Communication Emphasized							
			Prerequisite							

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
				LAB 3D	T	07:00 - 08:50 pm	SHNK	00303		
				Communication Emphasized						
				Prerequisite						
2319	1.0- 1.0	70188		LAB 3A	M	01:00 - 01:50 pm	SHNK	00305	Nath,M	
				Prerequisite						
				LAB 3A	M	02:00 - 03:50 pm	SHNK	00303		
				Prerequisite						
2320	3.0- 3.0	72583		LEC 1A	MWF	10:00 - 10:50 am	CH	00103	Choudhury,A	
				Prerequisite						
2510	4.0- 4.0			LEC 1A	MWF	11:00 - 11:50 am	SHNK	00305	Nam,P	
				All-digital class materials at significant savings						
				Prerequisite						
	4.0- 4.0	71241		LAB 3A	T	02:00 - 02:50 pm	EMGT	00106	Nam,P	
				Prerequisite						
				LAB 3A	T	03:00 - 04:50 pm	SHNK	00307		
				Prerequisite						
	4.0- 4.0	71299		LAB 3B	Th	02:00 - 02:50 pm	EMGT	00106	Nam,P	
				Prerequisite						
				LAB 3B	Th	03:00 - 04:50 pm	SHNK	00307		
				Prerequisite						
3410	3.0- 3.0	70189		LEC 1A	MWF	10:00 - 10:50 am	H-SS	000G5	Woelk,K	
				Prerequisite						
				Prerequisites: Physics 1111 or Physics 1135; accompanied or preceded by either Math 1215 or Math 1221.						
3419	1.0- 1.0	70190		LAB 3A	W	01:00 - 01:50 pm	SHNK	00305	Grubbs,G	
				Prerequisite						
				Prerequisites: Preceded or accompanied by both Chem 3410 and Chem 1100.						
				LAB 3A	W	02:00 - 03:50 pm	SHNK	00125		
				Prerequisite						
3420	3.0- 3.0	72253		LEC 1A	MWF	08:00 - 08:50 am	SHNK	00305	Mochalin,V	
				Prerequisite						
				Prerequisites: Physics 2135 or Physics 2111; preceded or accompanied by Math 2222.						
3459	2.0- 2.0	72202		LAB 3A	W	01:00 - 01:50 pm	SHNK	00305	Grubbs,G	
				Prerequisite						
				LAB 3A	W	02:00 - 05:50 pm	SHNK	00125		
				Prerequisite						
4000	0.0- 6.0	70191		IND 6A	ARR	ARR	ARR		Choudhury,A	
				Prerequisite						
	0.0- 6.0	70192		IND 6B	ARR	ARR	ARR		Dawes,R	
				Prerequisite						
	0.0- 6.0	70193		IND 6C	ARR	ARR	ARR		Ercal,N	
				Prerequisite						
	0.0- 6.0	70194		IND 6D	ARR	ARR	ARR		Glaser,R	
				Prerequisite						
	0.0- 6.0	70195		IND 6E	ARR	ARR	ARR		Kapila,S	
				Prerequisite						
	0.0- 6.0	70196		IND 6F	ARR	ARR	ARR		Leventis,N	
				Prerequisite						
	0.0- 6.0	71079		IND 6G	ARR	ARR	ARR		Nam,P	
				Prerequisite						
	0.0- 6.0	71374		IND 6H	ARR	ARR	ARR		Nath,M	
				Prerequisite						
	0.0- 6.0	70197		IND 6J	ARR	ARR	ARR		Reddy,V	
				Prerequisite						
	0.0- 6.0	70198		IND 6K	ARR	ARR	ARR		Schuman,T	
				Prerequisite						
	0.0- 6.0	70199		IND 6L	ARR	ARR	ARR		Sotiriou-Leventis,C	
				Prerequisite						
	0.0- 6.0	71547		IND 6M	ARR	ARR	ARR		Stavropoulos,P	
				Prerequisite						
	0.0- 6.0	71548		IND 6N	ARR	ARR	ARR		Switzer,J	
				Prerequisite						
	0.0- 6.0	71549		IND 6P	ARR	ARR	ARR		Van De Mark,M	
				Prerequisite						
	0.0- 6.0	71550		IND 6Q	ARR	ARR	ARR		Wang,R	
				Prerequisite						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	71551	IND	6R	ARR	ARR	ARR		Whitefield,P
			Prerequisite						
	0.0- 6.0	71580	IND	6T	ARR	ARR	ARR		Winiarz,J
			Prerequisite						
	0.0- 6.0	71957	IND	6U	ARR	ARR	ARR		Woelk,K
			Prerequisite						
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
	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.			Prerequisite						
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
			Prerequisite						
			LAB	3A	T	09:00 - 11:50 am	SHNK	00303	
			Prerequisite						
4420 Chemical Kinetics II	3.0- 3.0	72207	LEC	1A	TTh	11:00 - 12:15 pm	NOR	00208	Dawes,R
Prerequisites: Chem 3420.			Prerequisite						
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
			Prerequisite						
4610 General Biochemistry	3.0- 3.0	71963	LEC	1A	TTh	11:00 - 12:15 pm	BERTELS	00B12A	Wang,R
Prerequisite: Chem 2220.			Prerequisite						
4620 Metabolism	3.0- 3.0	70202	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00316	Ercal,N
Prerequisite: Chem 4610.			Prerequisite						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4850 Fundamentals Of Protective Coating I Prerequisite: Chem 1320. (Co-listed with MS&E 4850)	3.0- 3.0	72856	LEC	1A	CANCELLED				
5100 Laboratory Safety & Hazardous Materials Prerequisites: Graduate standing.	1.0- 1.0	72203	LEC	1A	MTWThF	08:00 - 08:50 am	SHNK	000G3	Whitefield,P
5220 Synthetic Organic Chemistry Prerequisite: Chem 2220.	3.0- 3.0	72853	LEC	1A	MWF	11:00 - 11:50 am	CH	00103	Leventis,N
5420 Elemental Quantum Chemistry Prerequisites: Math 2222; Physics 2135 or Physics 2111.	3.0- 3.0	72254	LEC	1A	MWF	08:00 - 08:50 am	SHNK	00305	Mochalin,V
5430 Advanced Chemical Kinetics Prerequisites: Chem 3430.	3.0- 3.0	72208	LEC	1A	TTh	11:00 - 12:15 pm	NOR	00208	Dawes,R
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	MF	11:00 - 12:15 pm	EMGT	00104	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**
2003 **Engineering Communications and Computations**
(Co-listed with Arch Eng 2003)

1.0- 3.0 70248 IND 6A ARR ARR ARR Burken,J
3.0- 3.0 LEC 1A TTh 08:00 - 09:15 am BCH 00125 Pickerill,H

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.

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
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.
All-digital class materials at significant savings
See 'Notes' for Evening Exams
Prerequisite

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.

All-digital class materials at significant savings
See 'Notes' for Evening Exams
Prerequisite

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.

All-digital class materials at significant savings
See 'Notes' for Evening Exams
Prerequisite

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.

All-digital class materials at significant savings
See 'Notes' for Evening Exams
Prerequisite

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.

All-digital class materials at significant savings
See 'Notes' for Evening Exams
Prerequisite

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.

All-digital class materials at significant savings
See 'Notes' for Evening Exams
Prerequisite

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.

All-digital class materials at significant savings
See 'Notes' for Evening Exams
Prerequisite

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
Prerequisite

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	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
									Prerequisite
	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.
									Prerequisite
	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.
									Prerequisite
2211	Materials Testing	1.0- 1.0	LAB	3A	M	01:00 - 01:50 pm	IDE	000G4A	Libre,N
	Prerequisite: Preceded or accompanied by Civ Eng 2210.								Prerequisite
									LAB 3A M 02:00 - 02:50 pm IDE 000G6
									Prerequisite
		1.0- 1.0	LAB	3B	M	03:00 - 03:50 pm	IDE	000G4A	Libre,N
									Prerequisite
									LAB 3B M 04:00 - 04:50 pm IDE 000G6
									Prerequisite
		1.0- 1.0	LAB	3C	M	05:00 - 05:50 pm	IDE	000G4A	Libre,N
									Prerequisite
									LAB 3C M 06:00 - 06:50 pm IDE 000G6
									Prerequisite
		1.0- 1.0	LAB	3D	T	01:00 - 01:50 pm	IDE	000G4A	Libre,N
									Prerequisite
									LAB 3D T 02:00 - 02:50 pm IDE 000G6
									Prerequisite
		1.0- 1.0	LAB	3E	T	03:00 - 03:50 pm	IDE	000G4A	Libre,N
									Prerequisite
									LAB 3E T 04:00 - 04:50 pm IDE 000G6
									Prerequisite
		1.0- 1.0	LAB	3F	T	05:00 - 05:50 pm	IDE	000G4A	Libre,N
									Prerequisite
									LAB 3F T 06:00 - 06:50 pm IDE 000G6
									Prerequisite
		1.0- 1.0	LAB	3G	W	01:00 - 01:50 pm	IDE	000G4A	Libre,N
									Prerequisite
									LAB 3G W 02:00 - 02:50 pm IDE 000G6
									Prerequisite
		1.0- 1.0	LAB	3H	W	03:00 - 03:50 pm	IDE	000G4A	Libre,N
									Prerequisite
									LAB 3H W 04:00 - 04:50 pm IDE 000G6
									Prerequisite
		1.0- 1.0	LAB	3J	Th	01:00 - 01:50 pm	IDE	000G4A	Libre,N
									Prerequisite
									LAB 3J Th 02:00 - 02:50 pm IDE 000G6
									Prerequisite
		1.0- 1.0	LAB	3K	Th	03:00 - 03:50 pm	IDE	000G4A	Libre,N
									Prerequisite
									LAB 3K Th 04:00 - 04:50 pm IDE 000G6
									Prerequisite
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).								Prerequisite
		3.0- 3.0	LAB	3A	M	01:00 - 03:50 pm	BCH	00215	
									Prerequisite
		3.0- 3.0	LAB	3B	T	12:30 - 03:15 pm	BCH	00318	
									Prerequisite
		3.0- 3.0	LAB	3C	W	01:00 - 03:50 pm	BCH	00318	
									Prerequisite
		3.0- 3.0	LAB	3D	Th	12:30 - 03:15 pm	BCH	00314	
									Prerequisite

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2601 Fundamentals Of Environmental Engineering And Science Prerequisites: Chem 1310, Chem 1301, or Chem 1351; Math 1214, Math 1212, or Math 1208. (Co-listed with Env Eng 2601)	3.0- 3.0		LEC	1A	MW	08:00 - 08:50 am	BCH	00209	Oerther,D
			Prerequisite						
	3.0- 3.0		LEC	1B	MW	11:00 - 11:50 am	BCH	00209	Burken,J
			Prerequisite						
	3.0- 3.0	70266	LAB	3A2	T	01:00 - 03:50 pm	BCH	00209	Oerther,D
			Prerequisite						
2602 Biological Fundamentals Of Environmental Engineering Prerequisites: Bio Sci 1113 and preceded or accompanied by Civ/Env Eng 2601. (Co-listed with Env Eng 2602)	3.0- 3.0	72949	LAB	3A1	M	01:00 - 03:50 pm	BCH	00209	Oerther,D
			Prerequisite						
	3.0- 3.0	71571	LAB	3B1	W	01:00 - 03:50 pm	BCH	00209	Burken,J
			Prerequisite						
	3.0- 3.0	72950	LAB	3B2	Th	01:00 - 03:50 pm	BCH	00209	Burken,J
			Prerequisite						
3116 Construction Materials, Properties And Testing Prerequisites: Civ Eng 2211 or Min Eng 3812; Civ Eng 3715 or both Geo Eng 1150 and Min Eng 3412.	3.0- 3.0	72615	LEC	1A	MWF	08:00 - 08:50 am	BCH	00110	Feys,D
			Class will meet 3 lecture periods per week when labs do not meet. See 'Notes'-Additional Meeting Prerequisite						
3201 Structural Analysis I	3.0- 3.0	72617	LEC	1B	MWF	10:00 - 10:50 am	BCH	00110	Ma,H
			Class will meet 3 lecture periods per week when labs do not meet. See 'Notes'-Additional Meeting Prerequisite						
	0.0- 0.0	72616	LAB	3A	T	01:00 - 04:30 pm	BCH	00110	Feys,D
			Prerequisite						
3210 Structural Design in Metals Prerequisite: Civ Eng 3201 with a grade of "C" or better. (Co-listed with Arch Eng 3210)	0.0- 0.0	72618	LAB	3B	Th	01:00 - 04:30 pm	BCH	00110	Ma,H
			Prerequisite						
	3.0- 3.0	70255	LAB	3A	Th	12:30 - 03:15 pm	BCH	00318	Abdulazeez,M
3210 Structural Design in Metals Prerequisite: Civ Eng 3201 with a grade of "C" or better. (Co-listed with Arch Eng 3210)	3.0- 3.0		LEC	1A	MW	12:00 - 12:50 pm	BCH	00318	Abdulazeez,M
			Prerequisite						
	3.0- 3.0	70257	LAB	3A	F	01:00 - 03:50 pm	H-SS	000G5	Yan,G
3220 Reinforced Concrete Design Prerequisite: Civ Eng 3201 with grade of "C" or better. (Co-listed with Arch Eng 3220)	3.0- 3.0		LEC	1A	MW	12:00 - 12:50 pm	BCH	00112A	Yan,G
			Prerequisite						
3220 Reinforced Concrete Design 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
			Prerequisite						
3330 Engineering Fluid Mechanics Prerequisites: IDE 2350 or IDE 2340, and MATH 3304, each with a grade of "C" or better.	3.0- 3.0	70260	LEC	1A	MWF	09:00 - 09:50 am	BCH	00120	Mendoza,C
			Prerequisite						
3334 Water Resources Engineering Prerequisites: Civ Eng 3330 and Stat 3113 with grades of "C" or better.	4.0- 4.0		LEC	1A	MWF	11:00 - 11:50 am	BCH	00318	Holmes,R
			Prerequisite						
	4.0- 4.0	71238	LAB	3A	M	01:00 - 03:50 pm	BCH	00316	Holmes,R
3334 Water Resources Engineering Prerequisites: Civ Eng 3330 and Stat 3113 with grades of "C" or better.	4.0- 4.0	70262	LAB	3B	F	01:00 - 03:50 pm	BCH	00316	Holmes,R
			Prerequisite						
	3.0- 3.0	70250	LAB	3A	W	02:00 - 03:50 pm	BCH	00115	Gomaa,E
3500 Transportation Engineering Prerequisites: Civ Eng 2401 and Civ Eng 2003.	3.0- 3.0		LEC	1A	TTh	09:30 - 10:20 am	BCH	00315	Sneed,M
			Prerequisite						
	3.0- 3.0	72992	LAB	3B	W	04:00 - 05:50 pm	BCH	00115	Sneed,M
3715 Fundamentals of Geotechnical Engineering Prerequisite: Geo Eng 1150 or Arch Eng 2103; Civ Eng 2210; and preceded or accompanied by Civ Eng 3330.	3.0- 3.0		LEC	1A	MWF	12:00 - 12:50 pm	BCH	00120	Deng,W
			Prerequisite						
3715 Fundamentals of Geotechnical Engineering Prerequisite: Geo Eng 1150 or Arch Eng 2103; Civ Eng 2210; and preceded or accompanied by Civ Eng 3330.	3.0- 3.0	70252	LAB	3A	M	01:00 - 02:50 pm	CE	00114	Deng,W
			Prerequisite						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	3.0- 3.0	71150	LAB	3B	M	03:00 - 04:50 pm	CE	00114	Deng,W
			Prerequisite						
	3.0- 3.0	70253	LAB	3C	T	01:00 - 02:50 pm	CE	00114	Deng,W
			Prerequisite						
	3.0- 3.0	71891	LAB	3E	W	01:00 - 02:50 pm	CE	00114	Deng,W
			Prerequisite						
	3.0- 3.0	71892	LAB	3F	W	04:00 - 05:50 pm	CE	00114	Deng,W
			Prerequisite						
3842	3.0- 3.0	70263	LEC	1A	TTh	08:00 - 09:15 am	BCH	00121	Gillis,W
	Prerequisites: Physics 2135, Math 2222, and Junior Standing.								
4001	3.0- 3.0		LEC	1A	M	04:00 - 05:50 pm	BCH	00121	Abdelrahman,M
	Prerequisites: Preceded or accompanied by Civ Eng 2601 and preceded by Civ Eng 3116.								
	3.0- 3.0	73483	LAB	3A	ARR	ARR	ARR		Abdelrahman,M
	Infrastructure Stst thr Recycl								
4097	3.0- 3.0	70267	LEC	1A	M	01:00 - 03:50 pm	BCH	00120	Showalter,W
	Prerequisite: Civ Eng 4448 or Arch Eng 4448. (Co-listed with Arch Eng 4097 and Env Eng 4097)								
4099	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	3.0- 3.0	70264	LEC	1A	TTh	08:00 - 09:15 am	BCH	00120	Showalter,W
	Fundamentals Of Contracts And Construction Engineering								
	Prerequisite: Senior Standing. (Co-listed with Arch Eng 4448)								
4729	3.0- 3.0	71184	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00101	Zhang,X
	Prerequisite: Civ Eng 3715.								
5000	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

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	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	
	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	
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	
									Environ Field Methods	
		3.0- 3.0	73444	LEC	1B	TTh	12:30 - 01:45 pm	TMH	00260	Yan,G
									Wind Engineering	
		3.0- 3.0	73446	LEC	1C	MWF	12:00 - 12:50 pm	BCH	00317	Oerther,D
									STEAM Diplomacy	
		3.0- 3.0	73447	LEC	1D	CANCELLED				
		3.0- 3.0	73362	LAB	3A	ARR	ARR	ARR	Holmes,R	
									Environ Field Methods	
5113	Composition And Properties Of Concrete 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	
									Prerequisite	
5156	Concrete Pavement Design Prerequisite: Civ Eng 3116 with a grade of "C" or better.	3.0- 3.0	72555	LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00B12A	Liu,J
									Prerequisite	
5330	Unsteady Flow Hydraulics Prerequisites: 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	Wilson,L
5331	Hydraulics Of Open Channels Prerequisite: Civ Eng 3330 with a grade of "C" or better.	3.0- 3.0	73248	LEC	1A	MWF	08:00 - 08:50 am	BCH	00216	Mendoza,C
									Prerequisite	
5442	Construction Planning and Scheduling Strategies Prerequisite: Civ Eng or Arch Eng 4448. (Co-listed with Arch Eng 5442)	3.0- 3.0	71411	LEC	1A	M	04:00 - 06:30 pm	IDE	00105	Bodapati,S
									Prerequisite	
5446	Management Of Construction Costs Prerequisites: Civ Eng 4448 with a grade of "C" or better. (Co-listed with Arch Eng 5446)	3.0- 3.0	72907	LEC	1A	MWF	10:00 - 10:50 am	BCH	00316	Showalter,W
									Prerequisite	
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	71570	LEC	1A	MWF	09:00 - 09:50 am	TMH	00260	Scott-Showalter,P
									Prerequisite	
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	71876	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00215	El-adaway,I
									Prerequisite	
5515	Advanced Traffic Operations and Capacity Analysis Prerequisite: Civ Eng 5513.	3.0- 3.0	72906	LEC	1A	Th	07:00 - 09:30 pm	BCH	00213	Hu,X
									Prerequisite	
		3.0- 3.0	73563	LEC	1MSU	Th	07:00 - 09:30 pm	PCTR	02006	Hu,X
									Meets Off-Campus	
									Prerequisite	
5619	Environmental Engineering Design Prerequisite: Civ Eng 3615 or Env Eng 3615. (Co-listed with Env Eng 5619)	3.0- 3.0		LEC	1A	Th	04:00 - 04:50 pm	BCH	00216	
									Prerequisite	

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			LEC	1A	T	04:00 - 04:50 pm	BCH	00216	Campbell,K
			Prerequisite						
	3.0- 3.0	71812	LAB	3A	Th	05:00 - 05:50 pm	BCH	00209	Campbell,K
			Prerequisite						
5640			LEC	1A	M	07:00 - 09:30 pm	BCH	00213	Flechas,F
			Prerequisite						
5650			LEC	1A	TTh	11:00 - 12:15 pm	BCH	00213	Oerther,D
			Prerequisite						
5744			LEC	1A	W	04:00 - 06:30 pm	BCH	00213	McLain,K
			Prerequisite						
6000			IND	6B	ARR	ARR	ARR		Abdelrahman,M
	0.0- 6.0	71373	IND	6C	ARR	ARR	ARR		Baur,S
	0.0- 6.0	70295	IND	6D	ARR	ARR	ARR		Burken,J
	0.0- 6.0	70296	IND	6E	ARR	ARR	ARR		Chen,G
	0.0- 6.0	71051	IND	6F	ARR	ARR	ARR		Deng,W
	0.0- 6.0	70297	IND	6G	ARR	ARR	ARR		El-adaway,I
	0.0- 6.0	70298	IND	6H	ARR	ARR	ARR		ElGawady,M
	0.0- 6.0	70299	IND	6I	ARR	ARR	ARR		Feys,D
	0.0- 6.0	70300	IND	6J	ARR	ARR	ARR		Fitch,M
	0.0- 6.0	71127	IND	6K	ARR	ARR	ARR		Gillis,W
	0.0- 6.0	71010	IND	6L	ARR	ARR	ARR		Hu,X
	0.0- 6.0	70301	IND	6M	ARR	ARR	ARR		Khayat,K
	0.0- 6.0	70302	IND	6N	ARR	ARR	ARR		Libre,N
	0.0- 6.0	70303	IND	6O	ARR	ARR	ARR		Liu,J
	0.0- 6.0	70304	IND	6P	ARR	ARR	ARR		Ma,H
	0.0- 6.0	70305	IND	6Q	ARR	ARR	ARR		Mendoza,C
	0.0- 6.0	70306	IND	6R	ARR	ARR	ARR		Myers,J
	0.0- 6.0	70307	IND	6S	ARR	ARR	ARR		Oerther,D
	0.0- 6.0	71773	IND	6T	ARR	ARR	ARR		Olgun,C
	0.0- 6.0	72087	IND	6U	ARR	ARR	ARR		Schonberg,W
	0.0- 6.0	72088	IND	6V	ARR	ARR	ARR		Showalter,W
	0.0- 6.0	72435	IND	6W	ARR	ARR	ARR		Sneed,L
	0.0- 6.0	72556	IND	6X	ARR	ARR	ARR		Wang,J
	0.0- 6.0	72755	IND	6Y	ARR	ARR	ARR		Wu,C
	0.0- 6.0	73249	IND	6Z	ARR	ARR	ARR		Yan,G
	0.0- 6.0	73250	IND	6AA	ARR	ARR	ARR		Zhang,X
	0.0- 6.0	73453	IND	6BB	ARR	ARR	ARR		
6001			LEC	1A	TTh	04:00 - 06:30 pm	BCH	00101	Khayat,K
			Prerequisites: Consent of instructor and Graduate Standing.						
			Concrete Rheology & SCC						
			LEC	1B	T	02:00 - 03:50 pm	BCH	00316	Abdelrahman,M
			Pavement Mgmt, Eval & Rehab						
			LEC	1C	TTh	02:00 - 03:15 pm	BCH	00317	Hu,X
			Transportation Networks						
			UM Shared Course-Secondary						
			LAB	3B	Th	01:00 - 03:50 pm	MCNT	00265	Abdelrahman,M
			Pavement Mgmt, Eval & Rehab						
6040			IND	6A	ARR	ARR	ARR		Burken,J
			Oral Examination						
			Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.						
6050			IND	6A	ARR	ARR	ARR		Burken,J
			Continuous Registration						
			Doctoral students only. Graduate Office permission required.						
6099			IND	6A	ARR	ARR	ARR		Abdelrahman,M
	0.0-15.0	71285	IND	6B	ARR	ARR	ARR		Baur,S
	0.0-15.0	70309	IND	6C	ARR	ARR	ARR		Burken,J
	0.0-15.0	70310	IND	6D	ARR	ARR	ARR		Chen,G
	0.0-15.0	71052	IND	6E	ARR	ARR	ARR		Deng,W
	0.0-15.0	70311	IND	6F	ARR	ARR	ARR		El-adaway,I
	0.0-15.0	70312	IND	6G	ARR	ARR	ARR		ElGawady,M
	0.0-15.0	70313	IND	6H	ARR	ARR	ARR		Feys,D
	0.0-15.0	70314	IND	6I	ARR	ARR	ARR		Fitch,M
	0.0-15.0	71128	IND	6J	ARR	ARR	ARR		Gillis,W
	0.0-15.0	70308	IND	6K	ARR	ARR	ARR		

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	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	
6205	Structural Dynamics and Earthquake Engineering	3.0- 3.0	72909	LEC	1A	CANCELLED				
	Prerequisite: Civ/Arch Eng 5208 or equivalent.									
6213	Advanced Design in Steel and Lightweight Structures	3.0- 3.0	73451	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00260	ElGawady,M
	Prerequisite: Preceded or accompanied by Civ Eng 5207.									
6338	Advanced Hydrology	3.0- 3.0	71539	LEC	1A	T	04:00 - 06:30 pm	BCH	00213	Wilson,L
	Prerequisite: Civ Eng 3333.									
6611	Physicochemical Operations In Environmental Engineering Systems	3.0- 3.0	71634	LEC	1A	TTh	09:30 - 10:45 am	BCH	00209	Wang,J
	Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Env Eng 6611 and Chem Eng 6330)									
6612	Biological Operations In Environmental Engineering Systems	3.0- 3.0	71756	LEC	1A	TTh	11:00 - 12:15 pm	LIB	000G14	Fitch,M
	Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Env Eng 6612)									
6713	Dynamics of Earth Materials	3.0- 3.0	73454	LEC	1A	W	07:00 - 09:30 pm	BCH	00121	Olgun,C
	Prerequisite: Preceded or accompanied by Civ Eng 5715.									
6715	Advanced Soil Mechanics	3.0- 3.0	72081	LEC	1A	T	07:00 - 09:30 pm	BCH	00213	Deng,W
	Prerequisite: Civ Eng 5715.									
6716	Soil Stabilization	3.0- 3.0	72080	LEC	1A	M	07:00 - 09:30 pm	TMH	00260	Zhang,X
	Prerequisite: Civ Eng 5715.									

Computer Engineering

2210	Introduction to Digital Logic	3.0- 3.0	70331	LEC	1A	MWF	11:00 - 11:50 am	EMGT	00103	
	Prerequisite: Sophomore standing. Comp Eng 2211 is also a co-requisite for Comp Eng and Elec Eng majors.									
		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	Woodley,R
		3.0- 3.0	72639	LEC	1D	MWF	01:00 - 01:50 pm	EMGT	00201	Choi,M
2211	Computer Engineering Laboratory	1.0- 1.0	70333	LAB	3A	M	01:00 - 02:50 pm	EECH	00209A	Choi,M
	Prerequisite: Preceded or accompanied by Comp Eng 2210.									
		1.0- 1.0	70334	LAB	3B	M	03:00 - 04:50 pm	EECH	00209A	Choi,M
		1.0- 1.0	71644	LAB	3C	T	10:00 - 11:50 am	EECH	00209A	Choi,M
		1.0- 1.0	70336	LAB	3D	T	02:30 - 04:20 pm	EECH	00209A	Choi,M

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	1.0- 1.0	71836	LAB	3E	T	06:10 - 08:00 pm	EECH	00209A	Choi,M
			Communication Emphasized						
			Prerequisite						
	1.0- 1.0	70337	LAB	3F	W	01:00 - 02:50 pm	EECH	00209A	Choi,M
			Communication Emphasized						
			Prerequisite						
	1.0- 1.0	70338	LAB	3G	W	03:00 - 04:50 pm	EECH	00209A	Choi,M
			Communication Emphasized						
			Prerequisite						
	1.0- 1.0	70335	LAB	3H	Th	10:00 - 11:50 am	EECH	00209A	Choi,M
			Communication Emphasized						
			Prerequisite						
	1.0- 1.0	72256	LAB	3J	Th	06:10 - 08:00 pm	EECH	00209A	Choi,M
			Communication Emphasized						
			Prerequisite						
3002	Cooperative Engineering Training	1.0- 1.0	IND	6A	ARR	ARR	ARR		Stanley,R
	Prerequisite: Consent of the Electrical and Computer Engineering Department required.								
3110	Computer Organization and Design	3.0- 3.0	LEC	1A	MWF	09:00 - 09:50 am	EMGT	00103	Choi,M
	Prerequisites: COMP ENG 2210; preceded or accompanied by COMP ENG 3150.								
3150	Introduction to Microcontrollers and Embedded System Design	3.0- 3.0	LEC	1A	TTh	09:30 - 10:45 am	EECH	00G31	Stanley,R
	Prerequisites: COMP ENG 2210 and COMP SCI 1570 (or programming equivalent) each with grade of "C" or better.								
		3.0- 3.0	LEC	1B	TTh	12:30 - 01:45 pm	EMGT	00103	Stanley,R
			Prerequisite						
3151	Digital Engineering Lab II	1.0- 1.0	LAB	3B	M	10:00 - 10:50 am	EE	00106	Stanley,R
			Communication Emphasized						
			Prerequisite						
			LAB	3B	M	11:00 - 11:50 am	EECH	00209A	
			Communication Emphasized						
			Prerequisite						
	1.0- 1.0	71136	LAB	3C	M	06:10 - 07:00 pm	EE	00106	Stanley,R
			Communication Emphasized						
			Prerequisite						
			LAB	3C	M	07:00 - 07:50 pm	EECH	00209A	
			Communication Emphasized						
			Prerequisite						
	1.0- 1.0	71818	LAB	3D	W	06:10 - 07:00 pm	EECH	00107	Stanley,R
			Communication Emphasized						
			Prerequisite						
			LAB	3D	W	07:00 - 07:50 pm	EECH	00209A	
			Communication Emphasized						
			Prerequisite						
	1.0- 1.0	72491	LAB	3E	F	06:10 - 07:00 pm	EE	00106	Stanley,R
			Communication Emphasized						
			Prerequisite						
			LAB	3E	F	07:00 - 07:50 pm	EECH	00209A	
			Communication Emphasized						
			Prerequisite						
	1.0- 1.0	72641	LAB	3F	W	10:00 - 10:50 am	EE	00106	
			Communication Emphasized						
			Prerequisite						
			LAB	3F	W	10:50 - 11:40 am	EECH	00209A	Stanley,R
			Communication Emphasized						
			Prerequisite						
	1.0- 1.0	73659	LAB	3G	F	03:00 - 03:50 pm	EECH	00107	
			Communication Emphasized						
			Prerequisite						
			LAB	3G	F	04:00 - 04:50 pm	EECH	00209A	
			Communication Emphasized						
			Prerequisite						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4096 Computer Engineering Senior Project I Prerequisites: Comp Eng 2210, either Econ 1100 or Econ 1200, either English 3560 or English 1160, Comp Eng 3150, Comp Eng 3151, Comp Eng 3110, and Elec Eng 2200.	1.0- 1.0		RSD	2A	M	12:00 - 12:50 pm	EECH	00G31	Woodley,R
			Prerequisite						
	1.0- 1.0		RSD	2B	M	12:00 - 12:50 pm	EECH	00G31	Woodley,R
			Prerequisite						
	1.0- 1.0	70348	LAB	3A	T	03:30 - 04:20 pm	EECH	00101	Ferguson,I
			Prerequisite						
	1.0- 1.0	70349	LAB	3B	W	03:00 - 03:50 pm	EECH	00104	Woodley,R
			Prerequisite						
4097 Computer Engineering Senior Project II Prerequisites: Comp Eng 4096 with a grade of "C" or better, Stat 3117 or Stat 3115 or Stat 5643, and Sp&M S 1185.	3.0- 3.0	70350	LAB	3A	MW	03:00 - 04:50 pm	EECH	00G31	Zawodniok,M
			Prerequisite						
	3.0- 3.0	70351	LAB	3B	TTh	03:00 - 04:50 pm	EECH	00G31	Woodley,R
			Prerequisite						
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 Prerequisite: Consent of the instructor required.	1.0-15.0	70353	IND	6A	ARR	ARR	ARR		Acar,L
	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 Prerequisite: Comp Eng 3110.	3.0- 3.0	71995	LEC	1A	TTh	05:30 - 06:45 pm	EECH	00103	Hurson,A
			Prerequisite						
			UM Shared Course-Primary						
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 Prerequisites: COMP ENG 3150 or 5110.	3.0- 3.0		LEC	1A	TTh	09:30 - 10:45 am	EECH	00102	Younger,R
			Prerequisite						
	3.0- 3.0	70343	LAB	3A	ARR	ARR	ARR		Younger,R
			Prerequisite						
5170 Real-Time Systems Prerequisites: COMP ENG 3150 or COMP SCI 3800. Co-listed with Comp Sci 5205	3.0- 3.0	71838	LEC	1A	MWF	11:00 - 11:50 am	CS	00209	Zawodniok,M
			Prerequisite						
5220 Digital System Modeling Prerequisite: Comp Eng 2210 with a grade of "C" or better.	3.0- 3.0	70344	LEC	1A	MWF	12:00 - 12:50 pm	CS	00209	Dua,R
			Prerequisite						
5410 Introduction to Computer Communication Networks Prerequisites: Comp Eng 3150 or computer hardware competency and Stat 3117 or Stat 3115 or Stat 5643 or equivalent.	3.0- 3.0	71165	LEC	1A	TTh	11:00 - 12:15 pm	EECH	00103	Sedighsarvestani,S
			Prerequisite						
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
			Prerequisite						
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
			Prerequisite						
	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

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	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	Sedighsarvestani,S

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
									All-digital class materials at significant savings
									Prerequisite
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
									COMP SCI MAJORS ONLY
									Prerequisite
	3.0- 3.0	70365	LEC	1B	MWF	10:00 - 10:50 am	CS	00203	Price,C
									Prerequisite
	3.0- 3.0	70366	LEC	1C	MWF	11:00 - 11:50 am	CS	00216	Morales,A
									Prerequisite
	3.0- 3.0	71889	LEC	1D	MWF	12:00 - 12:50 pm	CS	00203	
									Prerequisite
	3.0- 3.0	71951	LEC	1E	MWF	01:00 - 01:50 pm	CS	00207	Morales,A
									Prerequisite
	3.0- 3.0	72260	LEC	1F	MWF	02:00 - 02:50 pm	CS	00203	
									Prerequisite
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
									Prerequisite

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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	
			Prerequisite						
	1.0- 1.0	70368	LAB	3B	T	12:00 - 01:50 pm	CH	00105	
			Prerequisite						
	1.0- 1.0	70369	LAB	3C	T	06:00 - 07:50 pm	CH	00105	
		Prerequisite							
	1.0- 1.0	71890	LAB	3D	W	02:00 - 03:50 pm	TMH	00251	
		Prerequisite							
	1.0- 1.0	71952	LAB	3E	W	04:00 - 05:50 pm	CH	00105	
		Prerequisite							
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	
			Prerequisite						
	1.0- 1.0	72708	LAB	3B	Th	10:00 - 11:50 am	TMH	00251	
		Prerequisite							
	1.0- 1.0	72709	LAB	3C	Th	12:00 - 01:50 pm	TMH	00251	
		Prerequisite							
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
			Prerequisite						
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
			Prerequisite						
	1.0- 1.0	71953	LAB	3B	T	12:00 - 01:50 pm	TMH	00251	
			Prerequisite						
	1.0- 1.0	72574	LAB	3C	T	04:00 - 05:50 pm	TMH	00251	
		Prerequisite							
	1.0- 1.0	73319	LAB	3D	M	04:00 - 05:50 pm	TMH	00251	
		Prerequisite							
	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
			Domain Exp Innov Methods						
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
			Prerequisite						
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
			Prerequisite						
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	EECH	00G31	McMillin,B
			Prerequisite						
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	73390	LAB	3A	ARR	ARR	ARR		Bachman,B
			Skill Development						
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	
			Prerequisite						
			LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00112A	Gosnell,M
		Prerequisite							
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
			Prerequisite						
	3.0- 3.0	72575	LEC	1B	TTh	09:30 - 10:45 am	CS	00216	Sabharwal,C
		Prerequisite							
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
			Prerequisite						
	3.0- 3.0	70379	LEC	1B	MWF	01:00 - 01:50 pm	CS	00204	Leopold,J
		Prerequisite							

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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
			Prerequisite						
	3.0- 3.0	71956	LEC	1B	MWF	03:00 - 03:50 pm	CS	00207	Gosnell,M
			Prerequisite						
4000 Special Problems	0.0- 6.0	70373	IND	6A	ARR	ARR	ARR		Hurson,A
	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	FUL	00227	Morales,A
			Prerequisite						
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	FUL	00227	Morales,A
			Prerequisite						
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
			Prerequisite						
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
			Prerequisite						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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
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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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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
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
			All-digital class materials at significant savings						
			Low Cost/No Cost Affordable Educational Resources						
			MOTR ECON 102: Introduction to Microeconomics						
	3.0- 3.0	70410	LEC	1B	TTh	09:30 - 10:45 am	MCNT	00216	Fikru,M
			All-digital class materials at significant savings						
			Low Cost/No Cost Affordable Educational Resources						
			MOTR ECON 102: Introduction to Microeconomics						
	3.0- 3.0	70411	LEC	1C	TTh	12:30 - 01:45 pm	BCH	00120	Park,E
			All-digital class materials at significant savings						
			Low Cost/No Cost Affordable Educational Resources						
			MOTR ECON 102: Introduction to Microeconomics						
	3.0- 3.0	71770	LEC	1D	TTh	02:00 - 03:15 pm	EMGT	00103	Zhou,Y
			All-digital class materials at significant savings						
			Low Cost/No Cost Affordable Educational Resources						
			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
			All-digital class materials at significant savings						
			Prerequisite						
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
			Prerequisite						
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
			Prerequisite						
4085 Internship Prerequisite: Senior status; must have completed 24 hours in major.	0.0- 6.0	70418	IND	6A	ARR	ARR	ARR		Gelles,G
			Prerequisite						
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
			Prerequisite						
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	BCH	00110	Ichim,A
			Prerequisite						
	3.0- 3.0	70416	LAB	3A	Th	09:30 - 10:45 am	CS	00206	Ichim,A
			Prerequisite						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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
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	Smith,J
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
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	Smith,J

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
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
5370 Teachers Academy: Effective Instructional Strategies Prerequisite: Graduate standing.	3.0- 3.0	73630	LEC	1A	F	09:00 - 03:00 pm	ARR		Lewis,J

Electrical Engineering

CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2100	Circuits I	3.0- 3.0	70426	LEC 1A	MWF	08:00 - 08:50 am	EECH 00104	Swift,T
	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	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	1.0- 1.0	70428	LAB 3A	M	06:10 - 08:00 pm	EECH 00203	Swift,T
	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	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
2120	Circuits II	3.0- 3.0	73499	LEC 1A	WF	08:00 - 08:50 am	EECH 00102	Shrestha,B
	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	73500	LEC 1B	WF	09:00 - 09:50 am	EECH 00102	Shrestha,B
		3.0- 3.0	73501	LEC 1C	WF	01:00 - 01:50 pm	BCH 00315	Wu,C
		3.0- 3.0		RSD 2A	W	12:00 - 12:50 pm	EECH 00G31	Woodley,R
2200	Introduction to Electronic Devices	3.0- 3.0	71337	LEC 1A	MWF	10:00 - 10:50 am	EECH 00102	Kim,C
	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	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	1.0- 1.0	71452	LAB 3A	M	01:00 - 02:50 pm	EECH 00203	Watkins,S
	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	71340	LAB 3B	M	03:00 - 04:50 pm	EECH 00203	Watkins,S
		1.0- 1.0	71341	LAB 3C	T	06:10 - 08:00 pm	EECH 00203	Watkins,S
		1.0- 1.0	71342	LAB 3D	W	08:00 - 09:50 am	EECH 00203	Watkins,S

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	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.
									Prerequisite
	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.
									Prerequisite
	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.
									Prerequisite
	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.
									Prerequisite
	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.
									Prerequisite
	1.0- 1.0	72640	LAB	3K		CANCELLED			
	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.
									Prerequisite
2800	Electrical Circuits	3.0- 3.0	LEC	1A	WF	11:00 - 11:50 am	EECH	00G31	Kaur,A
	Prerequisites: Math 3304 or 3329; Physics 2135.								
									Prerequisite
		3.0- 3.0	LEC	1A	ARR	ARR	ARR		
									Prerequisite
		3.0- 3.0	LEC	1B	WF	01:00 - 01:50 pm	EECH	00G31	Kaur,A
									Prerequisite
			LEC	1B	ARR	ARR	ARR		
									Prerequisite
3000	Special Problems	1.0- 6.0	IND	6A	ARR	ARR	ARR		Drewniak,J
3002	Cooperative Engineering Training	1.0- 1.0	IND	6A	ARR	ARR	ARR		Ferdowski,M
	Prerequisite: Consent of the Electrical and Computer Engineering Department required.								
3100	Electronics I	3.0- 3.0	LEC	1A	TTh	11:00 - 12:15 pm	CS	00216	Swift,T
	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	LEC	1B	MWF	09:00 - 09:50 am	CS	00209	Wu,C
									Prerequisite
3101	Electronics I Laboratory	1.0- 1.0	LAB	3A	M	01:00 - 02:50 pm	EECH	00204	Wu,C
	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	LAB	3B	M	03:00 - 04:50 pm	EECH	00204	Wu,C
									Communication Emphasized
									Prerequisite
		1.0- 1.0	LAB	3C	M	06:10 - 08:00 pm	EECH	00204	Wu,C
									Communication Emphasized
									Prerequisite
		1.0- 1.0	LAB	3F	T	06:10 - 08:00 pm	EECH	00204	Wu,C
									Communication Emphasized
									Prerequisite
		1.0- 1.0	LAB	3H	Th	02:30 - 04:20 pm	EECH	00204	Wu,C
									Communication Emphasized
									Prerequisite
		1.0- 1.0	LAB	3J	W	06:10 - 08:00 pm	EECH	00204	Wu,C
									Communication Emphasized
									Prerequisite

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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
									Prerequisite
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
									Prerequisite
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
									Prerequisite
	3.0- 3.0	72723	LEC	1B	TTh	02:00 - 03:15 pm	EECH	00101	Acar,L
									Prerequisite
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
									Prerequisite
	1.0- 1.0	72321	LAB	3B	Th	02:30 - 04:20 pm	EECH	00205	Acar,L
									Prerequisite
	1.0- 1.0	72322	LAB	3C	F	01:00 - 02:50 pm	EECH	00205	Acar,L
									Prerequisite
	1.0- 1.0	72344	LAB	3D	T	05:00 - 06:50 pm	EECH	00205	Acar,L
									Prerequisite
	1.0- 1.0	73014	LAB	3E	M	05:00 - 06:50 pm	EECH	00205	Acar,L
									Prerequisite
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	BCH	00213	Erickson,K
									Prerequisite
	3.0- 3.0	70442	LAB	3A	M	03:00 - 04:50 pm	EECH	00G22	Erickson,K
									Prerequisite
	3.0- 3.0	70443	LAB	3B	T	12:00 - 01:50 pm	EECH	00G22	Erickson,K
									Prerequisite
	3.0- 3.0	71512	LAB	3C	T	02:30 - 04:20 pm	EECH	00G22	Erickson,K
									Prerequisite
	3.0- 3.0	71804	LAB	3D	W	01:00 - 02:50 pm	EECH	00G22	Erickson,K
									Prerequisite
	3.0- 3.0	72645	LAB	3E	T	09:30 - 11:20 am	EECH	00G22	Erickson,K
									Prerequisite
	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
									Prerequisite
	3.0- 3.0	71458	LEC	1B	MWF	09:00 - 09:50 am	EECH	00G31	Kaur,A
									Prerequisite
3411 Discrete Linear Systems Laboratory	1.0- 1.0	72727	LAB	3C	T	02:30 - 04:20 pm	EE	00106	Kosbar,K
									Prerequisite
	1.0- 1.0	71459	LAB	3E	W	03:00 - 04:50 pm	EE	00106	Kosbar,K
									Prerequisite
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
									Prerequisite
	3.0- 3.0	72496	LEC	1B	MWF	09:00 - 09:50 am	EECH	00101	Kosbar,K
									Prerequisite
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
									Prerequisite
	1.0- 1.0	72498	LAB	3B	T	02:30 - 04:30 pm	EECH	00205	Kosbar,K
									Prerequisite
	1.0- 1.0	72499	LAB	3C	W	01:00 - 02:50 pm	EECH	00205	Kosbar,K
									Prerequisite
	1.0- 1.0	72500	LAB	3D	W	03:00 - 04:50 pm	EECH	00205	Kosbar,K
									Prerequisite
	1.0- 1.0	72642	LAB	3E	Th	05:00 - 06:50 pm	EECH	00205	Kosbar,K
									Prerequisite
	1.0- 1.0	73015	LAB	3F	W	05:00 - 06:50 pm	EECH	00205	Kosbar,K
									Prerequisite
	1.0- 1.0	73642	LAB	3G	M	03:00 - 04:50 pm	EECH	00205	Kosbar,K
									Prerequisite

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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
									All-digital class materials at significant savings Low Cost/No Cost Affordable Educational Resources Prerequisite
3501 Electromechanics Laboratory Prerequisites: Elec Eng 2120 with a grade of "C" or better; passing grade on the Elec Eng Advancement Exam II.	1.0- 1.0	70438	LAB	3A	T	12:30 - 02:20 pm	EECH	00G12	Kimball,J
									Communication Emphasized Prerequisite
Prceeded or accompanied by Elec Eng 3500.	1.0- 1.0	71457	LAB	3B	W	10:00 - 11:50 am	EECH	00G12	Kimball,J
									Communication Emphasized Prerequisite
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
									Prerequisite
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.	1.0- 1.0	71501	LAB	3A	M	05:00 - 06:50 pm	EECH	00G12	Bo,R
									This lab also meets in EECH 107 when specified by instructor.
Prceeded or accompanied by Elec Eng 3540.	1.0- 1.0	70439	LAB	3B	Th	12:30 - 02:20 pm	EECH	00G12	Bo,R
									This lab also meets in EECH 106 when specified by instructor.
									Communication Emphasized Prerequisite
	1.0- 1.0	71840	LAB	3C	F	10:00 - 11:50 am	EECH	00G12	Bo,R
									Communication Emphasized Prerequisite
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	00102	Donnell,K
									Prerequisite
			LEC	1A	ARR	ARR	ARR		
									Prerequisite
	4.0- 4.0	71598	LEC	1B	MWF	10:00 - 10:50 am	BERTELS	00B12A	Wu,C
									Prerequisite
			LEC	1B	ARR	ARR	ARR		
									Prerequisite
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
									Prerequisite
	1.0- 1.0		RSD	2B	M	12:00 - 12:50 pm	EECH	00G31	Woodley,R
									Prerequisite
	1.0- 1.0	70465	LAB	3A	T	03:30 - 04:20 pm	EECH	00101	Ferguson,I
									Prerequisite
	1.0- 1.0	70466	LAB	3B	W	03:00 - 03:50 pm	EECH	00104	Woodley,R
									Prerequisite
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
									Prerequisite
	3.0- 3.0	70468	LAB	3B	TTh	03:00 - 04:50 pm	EECH	00G31	Woodley,R
									Prerequisite
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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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
	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
	0.0-15.0	73664	IND	6LL	ARR	ARR	ARR		Bo,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

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 Comp Eng 5620)	3.0- 3.0	70452	LEC	1A	MWF	10:00 - 10:50 am	EECH	00103	Drewniak,J	
			Prerequisite							
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	
			Prerequisite							
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	
			Prerequisite							
	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		Ferdowsi,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	
	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 Sysms							
	3.0- 3.0	73293	LEC	1B	CANCELLED					
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	
	0.0-15.0	73626	IND	6EE	ARR	ARR	ARR		Bo,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	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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	Ferdowski,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
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
1210 Economic Analysis of Engineering Projects Prerequisite: Math 1214.	1.0- 1.0	71324	LEC	1B	ARR	ARR	ARR		Grasman,K
	2.0- 2.0	71358	LEC	1A	ARR	ARR	ARR		Grasman,K
			No required classroom meetings other than common exams scheduled for Feb. 26th and April 16th from 6:00-8:00 pm. All-digital class materials at significant savings See 'Notes' for Evening Exams Prerequisite						
	2.0- 2.0	71242	LEC	1B	ARR	ARR	ARR		Grasman,K
			No required classroom meetings other than common exams scheduled for Feb. 26th and April 16th from 6:00-8:00 pm. All-digital class materials at significant savings See 'Notes' for Evening Exams Prerequisite						
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
			All-digital class materials at significant savings						
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
			All-digital class materials at significant savings Prerequisite						
	3.0- 3.0	72246	LEC	1B	TTh	02:00 - 03:15 pm	MCNT	00212	Hodges,S
			All-digital class materials at significant savings Prerequisite						
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
			Prerequisite						
	3.0- 3.0	72777	LEC	1B	TTh	09:30 - 10:45 am	H-SS	00101	Corns,S
			Prerequisite						
3310 Operations and Production Management Prerequisites: Eng Mgt 2110.	3.0- 3.0	70503	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00216	Sun,Z
			Prerequisite						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3320 Introduction to Project Management Prerequisites: Junior or above standing.	3.0- 3.0	71243	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00206	Schuman,J
									All-digital class materials at significant savings
									Prerequisite
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
									All-digital class materials at significant savings
									Low Cost/No Cost Affordable Educational Resources
									Prerequisite
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	IDE	00105	Raper,S
									All-digital class materials at significant savings
									Prerequisite
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
									Prerequisite
	3.0- 3.0	71229	LAB	3A	W	02:00 - 03:50 pm	MCNutt	234	Gosavi,A
									Prerequisite
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
									Prerequisite
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
									Prerequisite
4710 Quality Prerequisites: Stat 3115 or Stat 3117.	3.0- 3.0	71325	LEC	1A	TTh	02:00 - 03:15 pm	MCNT	00216	Cudney,E
									Prerequisite
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
									Prerequisite
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
									Experiential Innovation
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
									All-digital class materials at significant savings
									Prerequisite
5212 Intelligent Investing Prerequisites: Senior or Graduate Standing.	3.0- 3.0	72927	LEC	1A	M	04:00 - 06:30 pm	CS	00209	Enke,D
									Prerequisite
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
									Prerequisite
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
									Prerequisite
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
									Prerequisite
5412 Operations Management Science Prerequisites: Graduate standing.	3.0- 3.0	71360	LEC	1A	T	07:00 - 09:30 pm	TMH	00260	Gosavi,A
									Prerequisite
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
									Prerequisite
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
									Prerequisite
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
									Prerequisite
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
									Prerequisite
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

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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
6411 Advanced Topics in Simulation Modeling Prerequisite: Eng Mgt 5410 or Graduate standing.	3.0- 3.0	73660	LEC	1A	ARR	ARR	ARR		Long,S
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	Reynolds,A
	3.0- 3.0	70509	LEC	1B	TTh	12:30 - 01:45 pm	H-SS	000G8	Reynolds,A
	3.0- 3.0	71253	LEC	1C	MWF	09:00 - 09:50 am	EMGT	00104	Arthur,R
	3.0- 3.0	70510	LEC	1D	MWF	10:00 - 10:50 am	H-SS	00204	Asohsi,M
	3.0- 3.0	70511	LEC	1E	MWF	12:00 - 12:50 pm	H-SS	000G8	Meiners,B
	3.0- 3.0	71356	LEC	1F	MWF	11:00 - 11:50 am	H-SS	00204	Asohsi,M
	3.0- 3.0	71481	LEC	1H	MWF	01:00 - 01:50 pm	H-SS	00203	Meiners,B
	3.0- 3.0	71357	LEC	1J	ARR	ARR	ARR		Tate,K
	3.0- 3.0	70512	LEC	1K	TTh	11:00 - 12:15 pm	EMGT	00104	Wise,R
	3.0- 3.0	71600	LEC	1L	TTh	09:30 - 10:45 am	H-SS	000G9	Tate,K
	3.0- 3.0	71171	LEC	1M	TTh	12:30 - 01:45 pm	H-SS	00104	Wise,R
	3.0- 3.0	71801	LEC	1N	TTh	02:00 - 03:15 pm	H-SS	00104	Tate,K
1160 Writing And Research Prerequisite: English 1120.	3.0- 3.0	70513	LEC	1A	ARR	ARR	ARR		Larson,J

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	3.0- 3.0	70514	LEC	1B	MWF	09:00 - 09:50 am	H-SS	000G8	Schneider,R	
									MOTR ENGL 200: Composition II	
									Prerequisite	
	3.0- 3.0	71601	LEC	1C	MWF	10:00 - 10:50 am	H-SS	000G8	Schneider,R	
									MOTR ENGL 200: Composition II	
									Prerequisite	
	3.0- 3.0	70516	LEC	1D	MWF	02:00 - 02:50 pm	H-SS	00202	Goldberg,M	
									MOTR ENGL 200: Composition II	
									Prerequisite	
	3.0- 3.0	71489	LEC	1E	TTh	02:00 - 03:15 pm	H-SS	00204	Dereberry,M	
									MOTR ENGL 200: Composition II	
									Prerequisite	
	3.0- 3.0	71507	LEC	1F	ARR	ARR	ARR		Larson,J	
									MOTR ENGL 200: Composition II	
									Prerequisite	
	3.0- 3.0	71506	LEC	1G	TTh	11:00 - 12:15 pm	H-SS	00202	Dereberry,M	
									MOTR ENGL 200: Composition II	
									Prerequisite	
	3.0- 3.0	70515	LEC	1H	MWF	11:00 - 11:50 am	H-SS	00203	Goldberg,M	
									MOTR ENGL 200: Composition II	
									Prerequisite	
	3.0- 3.0	72204	LEC	1J	MWF	01:00 - 01:50 pm	H-SS	00102	Schneider,R	
									MOTR ENGL 200: Composition II	
									Prerequisite	
	3.0- 3.0	72420	LEC	1K	MWF	10:00 - 10:50 am	H-SS	000G7	Goldberg,M	
									MOTR ENGL 200: Composition II	
									Prerequisite	
	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
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
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	
									Prerequisite	
									MOTR LITR 101: American 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
1600	Introduction to Technical Communication Prerequisite: English 1120. (Co-listed with TCH COM 1600)	3.0- 3.0	71151	LEC	1A	ARR	ARR	ARR		Roberson,E
									Prerequisite	
									MOTR LITR 200: World Literature	
									Prerequisite	
									MOTR LITR 101: American Literature	
									Prerequisite	
									MOTR LITR 101: American Literature	
									Prerequisite	
2000	Special Problems And Readings Prerequisite: Consent of instructor.	0.0- 6.0	70522	IND	6A	ARR	ARR	ARR		Swenson,K
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
									Prerequisite	
									LEC 1A ARR ARR ARR	
									Prerequisite	
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	

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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
			Prerequisite						
	3.0- 3.0	71061	LEC	1B	ARR	ARR	ARR		Wright,M
			Prerequisite						
	3.0- 3.0	73621	LEC	1C	ARR	ARR	ARR		Wright,M
			Prerequisite						
3000 Special Problems	0.0- 6.0	71067	IND	6A	ARR	ARR	ARR		Swenson,K
	0.0- 6.0	73669	IND	6B	ARR	ARR	ARR		Hercula,S
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	BCH	00215	Bronner,S
			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
			Prerequisite						
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	Coffman,H
			Prerequisite						
	3.0- 3.0	72325	LEC	1B	MWF	10:00 - 10:50 am	MCNT	000B14	Mehanovic,A
			Prerequisite						
	3.0- 3.0	70520	LEC	1C	MWF	09:00 - 09:50 am	CSF	00114	Ganguly,P
			Prerequisite						
	3.0- 3.0	70521	LEC	1D	MWF	01:00 - 01:50 pm	H-SS	00202	Nasrin,S
			Prerequisite						
	3.0- 3.0	72063	LEC	1F	MWF	10:00 - 10:50 am	CSF	00114	Roberson,E
			Prerequisite						
	3.0- 3.0	72588	LEC	1G	ARR	ARR	ARR		Malone,E
			Course meets first 8 weeks of the semester.						
			Prerequisite						
			UM Shared Course-Secondary						
	3.0- 3.0	73595	LEC	1H	MWF	01:00 - 01:50 pm	CS	00206	Ngetich,D
			Prerequisite						
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
			Prerequisite						
	3.0- 3.0	73411	LEC	1B	MWF	10:00 - 10:50 am	TMH	00251	Chiu,Y
			Prerequisite						
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
			Prerequisite						
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
			Prerequisite						
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
			Prerequisite						

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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
				Prerequisite						
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	Wang,J
				Prerequisite						
		3.0- 3.0	71994	LAB	3A	Th	02:00 - 03:50 pm	BCH	00316	Wang,J
				Prerequisite						
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
				Prerequisite						
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
				Prerequisite						
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
				Environ Field Methods						
		3.0- 3.0	73456	LEC	1B	MWF	12:00 - 12:50 pm	BCH	00317	Oerther,D
				STEAM Diplomacy						
		3.0- 3.0	73358	LAB	3A	ARR	ARR	ARR		Holmes,R
				Environ Field Methods						
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
				Prerequisite						
				LEC	1A	Th	04:00 - 04:50 pm	BCH	00216	
				Prerequisite						
		3.0- 3.0	71814	LAB	3A	Th	05:00 - 05:50 pm	BCH	00209	Campbell,K
				Prerequisite						
5640	Environmental Law And Regulations (Co-listed with Civ Eng 5640)	3.0- 3.0	71334	LEC	1A	M	07:00 - 09:30 pm	BCH	00213	Flechas,F
5650	Public Health Engineering Prerequisite: Civ Eng 2601 with grade of "C" or better. (Co-listed with Civ Eng 5650)	3.0- 3.0	72327	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00213	Oerther,D
				Prerequisite						
6000	Special Problems	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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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
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	LIB	000G14	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

4099 Undergraduate Research	0.0- 6.0	73620	IND	6A	ARR	ARR	ARR		Johnson,C
5000 Special Problems	1.0- 3.0	73624	IND	6A	ARR	ARR	ARR		Johnson,C
5555 Computer Fired Pyrotechnic Show Design and Firing System Operation Prerequisites: Exp Eng 5512 or Exp Eng 5513 and successful background check.	3.0- 3.0	73407	LEC	1A	ARR	ARR	ARR		Vaill,J
	3.0- 3.0	73408	LAB	3A	ARR	ARR	ARR		Vaill,J
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
	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
5713 Demolition of Buildings and Structures Prerequisites: Preceded or accompanied by Civ Eng 2200 or Mech Eng 2340; US citizen or permanent resident; Successful background check.	3.0- 3.0	71683	LEC	1A	T	05:30 - 08:00 pm	MCNT	00212	Vaill,J
	3.0- 3.0	71684	LAB	3A	ARR	ARR	ARR		Vaill,J
5922 Tunneling & Underground Construction Techniques	3.0- 3.0	72737	LEC	1A	ARR	00:00 - 00:00 am			Perry,K
	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		
	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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5310 Financial Technology and Analytics Prerequisites: Finance 2150 or Graduate Standing.	3.0- 3.0	73634	LEC	1A	MWF	11:00 - 11:50 am	LIB	00G14	Liu,Y

French

1101 Elementary French I Prerequisite: Entrance requirements.	4.0- 4.0	72338	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00104	
									All-digital class materials at significant savings
									MOTR LANG 101: French I
			LEC	1A	ARR	ARR	ARR		Webster,C
									All-digital class materials at significant savings
									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
									All-digital class materials at significant savings
									MOTR LANG 102: French II
									Prerequisite
			LEC	1A	ARR	ARR	ARR		
									All-digital class materials at significant savings
									MOTR LANG 102: French II
									Prerequisite
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
									All-digital class materials at significant savings
									Prerequisite
			LEC	1A	ARR	ARR	ARR		
									All-digital class materials at significant savings
									Prerequisite
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
									Prerequisite

Freshman Engineering

1100 Study And Careers In Engineering	1.0- 1.0	71701	LEC	1A	M	05:00 - 05:50 pm	BCH	00125	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
	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
									Prerequisite
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
									Prerequisite
	3.0- 3.0	70528	LAB	3A	M	01:00 - 03:50 pm	MCNT	00265	Gertsch,L
									Prerequisite
	3.0- 3.0	71597	LAB	3B	W	01:00 - 03:50 pm	MCNT	00265	Gertsch,L
									Prerequisite
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
									Prerequisite
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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4115 Statistical Methods in Geology and Engineering	0.0- 6.0 3.0- 3.0	72849 71254	IND LEC	6F 1A	ARR MWF	ARR 09:00 - 09:50 am	ARR BCH	00213	Smith,R 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 3.0- 3.0	 73366	LEC LAB	1A 3A	T ARR	07:00 - 08:00 pm ARR	BERTELS ARR	00B12A	Holmes,R 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 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0	70540 70541 70542 70543 70544 73416	IND IND IND IND IND IND	6A 6B 6C 6D 6E 6F	ARR ARR ARR ARR ARR ARR	ARR ARR ARR ARR ARR ARR	ARR ARR ARR ARR ARR ARR		Anderson,N Gertsch,L Grote,K Maerz,N Rogers,J Smith,R
5144 Remote Sensing Technology Prerequisite: Geology 1110. (Co-listed with Geology 4310)	3.0- 3.0	71201	LEC LAB	1A 3A	TTh Th	11:00 - 11:50 am 02:00 - 05:00 pm	MCNT MCNT	000B14 000B14	Smith,R Smith,R
5174 Geological Engineering Field Methods	3.0- 3.0	70534	LAB LAB	3A 3A	MW W	12:00 - 12:50 pm 01:00 - 03:50 pm	ARR ARR		Bunch,J
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 3.0- 3.0	 70533	LEC LAB	1A 3A	M T	04:00 - 06:30 pm 12:30 - 03:15 pm	BCH MCNT	00213 00265	Maerz,N Maerz,N
5782 Environmental and Engineering Geophysics Prerequisite: Math 2222. (Co-listed with Geophys 5782)	3.0- 3.0 3.0- 3.0	 71399	LEC LAB	1A 3A	TTh T	11:00 - 11:50 am 01:00 - 03:00 pm	MCNT CSF	00243 00G5D	Anderson,N Anderson,N
6000 Special Problems	0.0- 6.0 0.0- 6.0 0.0- 6.0 0.0- 6.0 0.0- 6.0	70537 70538 70539 71149 71316	IND IND IND IND IND	6A 6B 6C 6D 6E	ARR ARR ARR ARR ARR	ARR ARR ARR ARR ARR	ARR ARR ARR ARR ARR		Anderson,N Grote,K Gertsch,L Maerz,N Rogers,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	70546	IND	6A	ARR	ARR	ARR		Rogers,J
6050 Continuous Registration	1.0- 1.0	71980	IND	6A	ARR	ARR	ARR		Rogers,J
6099 Research	0.0-15.0 0.0-15.0 0.0-15.0	72962 72974 73007	IND IND IND	6A 6B 6C	ARR ARR ARR	ARR ARR ARR	ARR ARR ARR		Gertsch,L Grote,K 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 Prerequisite: Graduate Standing.	3.0- 3.0 3.0- 3.0	 73418	LEC LAB	1A 3A	CANCELLED CANCELLED				
6782 Surface Waves (MASW) and Ground Penetrating Radar (GPR) Prerequisites: Geo Eng 1150 or Civ Eng 3715 or equivalent, and graduate standing	3.0- 3.0 3.0- 3.0	 71688	LEC LAB	1A 3A	Th Th	04:00 - 06:30 pm ARR	BCH ARR	00213	Anderson,N Anderson,N

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
Geology									
1120 Evolution Of The Earth Prerequisites: Recommend Geo Eng 1150 or Geology 1110 or Bio Sci 1113 but not required.	3.0- 3.0	70547	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00216	Oboh Ikuenobe,F
			All-digital class materials at significant savings						
			Low Cost/No Cost Affordable Educational Resources						
			Field Trip Required						
1129 Evolution of the Earth Laboratory Prerequisite: Preceded or accompanied by Geology 1120	1.0- 1.0	71222	LAB	3A	T	02:00 - 04:45 pm	MCNT	00312	Oboh Ikuenobe,F
			Prerequisite						
	1.0- 1.0	71610	LAB	3B	W	01:00 - 03:50 pm	MCNT	00312	Oboh Ikuenobe,F
			Prerequisite						
2611 Physical Mineralogy And Petrology Prerequisites: Chem 1310 and Chem 1319 or Chem 1351; Geo Eng 1150 or Geology 1110.	3.0- 3.0		LEC	1A	MW	05:00 - 05:50 pm	MCNT	00204	Wronkiewicz,D
			Prerequisite						
	3.0- 3.0	71810	LAB	3A	T	04:00 - 05:50 pm	MCNT	00108	Tucker,R
			Prerequisite						
	3.0- 3.0	71306	LAB	3B	W	02:00 - 03:50 pm	MCNT	00108	Tucker,R
			Prerequisite						
	3.0- 3.0	70549	LAB	3C	Th	02:00 - 03:50 pm	MCNT	00108	Tucker,R
			Prerequisite						
	3.0- 3.0	71078	LAB	3D	Th	04:00 - 05:50 pm	MCNT	00108	Tucker,R
			Prerequisite						
2620 Igneous And Metamorphic Petrology Prerequisite: Geology 2610.	4.0- 4.0		LEC	1A	MWF	09:00 - 09:50 am	MCNT	00265	Hogan,J
			Prerequisite						
			Field Trip Required						
	4.0- 4.0	70551	LAB	3A	Th	01:00 - 03:50 pm	MCNT	00308	Hogan,J Liu,C
			Prerequisite						
			Field Trip Required						
	4.0- 4.0	71060	LAB	3B	W	01:00 - 03:50 pm	MCNT	00308	Hogan,J
			Prerequisite						
			Field Trip Required						
3000 Special Problems	0.0- 6.0	70552	IND	6A	ARR	ARR	ARR		Hogan,J
3410 Introduction To Geochemistry Prerequisite: Chem 1310.	3.0- 3.0	70555	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00204	Wronkiewicz,D
			Prerequisite						
3620 Stratigraphy And Sedimentation Prerequisite: Geology 2620 or Geology 2611.	3.0- 3.0	70553	LEC	1A	MWF	11:00 - 11:50 am	H-SS	000G5	Oboh Ikuenobe,F
			All-digital class materials at significant savings						
			Prerequisite						
			Field Trip Required						
3629 Stratigraphy Lab Prerequisite: Concurrent with Geology 3620.	1.0- 1.0	70554	LAB	3A	F	01:00 - 03:50 pm	MCNT	00265	Obrist Famer,J
			Prerequisite						
			Field Trip Required						
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
4001 Special Topics Prerequisites: Geology 3310. (Co-listed with Pet Eng 4001).	3.0- 3.0	73640	LEC	1A	TTh	02:00 - 03:15 pm	MCNT	00245	Borrok,D
			Unconv Pet Rsr Dvp						
4010 Seminar Prerequisite: Senior standing.	0.5- 0.5	73235	LEC	1A	W	04:00 - 04:50 pm	MCNT	00206	Borrok,D
			Prerequisite						
4085 Internship Prerequisite: Advisor's approval.	3.0- 3.0	72969	IND	6A	ARR	ARR	ARR		Borrok,D
	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
	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 Prerequisite: Geology 1110. (Co-listed with Geo Eng 5144)	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	MCNT	000B14	Smith,R
			Prerequisite						
	3.0- 3.0	71247	LAB	3A	Th	02:00 - 05:00 pm	MCNT	000B14	Smith,R
			Prerequisite						
4521 Ore Microscopy Prerequisite: Geology 2610.	3.0- 3.0		LEC	1A	Th	11:00 - 12:40 pm	MCNT	00210	Locmelis,M
	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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4841 Geological Field Studies	3.0- 3.0	72100	LEC	1A	CANCELLED				
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
5001 Special Topics	3.0- 3.0	73594	LEC	1A	ARR	ARR			Eckert,A
Prerequisites: Instructor approval.									
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		Obrist 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.									
	4.0- 4.0	73237	LAB	3A	M	03:00 - 05:00 pm	MCNT	00308	Hogan,J
Prerequisite									
6001 Special Topics	6.0- 6.0		LEC	1A	ARR	ARR	ARR		Obrist Famer,J
Prerequisites: Geo 5513, Geophys 4231, Pet Eng 3330; consent of instructor.									
	6.0- 6.0	73599	LAB	3A	ARR	ARR	ARR		Obrist Famer,J
Applied Petro Sys Anlys									
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
6099 Research	0.0-15.0	73644	IND	6A	ARR	ARR	ARR		Borrok,D
	0.0-15.0	73645	IND	6B	ARR	ARR	ARR		Hogan,J
	0.0-15.0	73646	IND	6C	ARR	ARR	ARR		Locmelis,M
	0.0-15.0	73647	IND	6D	ARR	ARR	ARR		Oboh Ikuenobe,F
	0.0-15.0	73648	IND	6E	ARR	ARR	ARR		Obrist Famer,J
	0.0-15.0	73649	IND	6F	ARR	ARR	ARR		Wronkiewicz,D
	0.0-15.0	73650	IND	6G	ARR	ARR	ARR		Yang,W
6211 Geodynamics	3.0- 3.0	72874	LEC	1A	CANCELLED				
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.									
	4.0- 4.0	73239	LAB	3A	M	03:00 - 05:00 pm	MCNT	00308	Hogan,J
Field Trip Required									
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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	3.0- 3.0	72415	LEC	1D	MWF	11:00 - 11:50 am	H-SS	00101	Beattie,M	
			All-digital class materials at significant savings							
			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							
2000 Special Problems	0.0- 6.0	73593	IND	6A	ARR	ARR	ARR		Fogg,S	
2110 World Regional Geography	3.0- 3.0	71527	LEC	1A	ARR	ARR	ARR		Rivera,J	
			All-digital class materials at significant savings							
			MOTR GEOG 101: World Regional Geography							
2224 Making Of Modern Russia Prerequisite: History 1200.	3.0- 3.0	73207	LEC	1A	TTh	12:30 - 01:45 pm	H-SS	00103	Behrendt,A	
			Prerequisite							
2510 History of Technology Prerequisite: History 1100 or 1200 or 1300 or 1310.	3.0- 3.0	72775	LEC	1A	TTh	09:30 - 10:45 am	CH	00104	Schramm,J	
			Prerequisite							
	3.0- 3.0	73209	LEC	1B	TTh	11:00 - 12:15 pm	CH	00104	Schramm,J	
			Prerequisite							
3001 Special Topics Prerequisites: History 1200 or History 1310.	3.0- 3.0	73212	LEC	1A	MWF	11:00 - 11:50 am	BCH	00317	DeWitt,P	
			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	BCH	00215	Bronner,S	
			Folk Tech and Material Culture							
3125 Ancient Rome Prerequisite: History 1100.	3.0- 3.0	73210	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00104	Bruening,M	
			Prerequisite							
3443 The American Military Experience Prerequisite: History 1200 or History 1300 or History 1310 or Pol Sci 1200.	3.0- 3.0	73213	LEC	1A	TTh	02:00 - 03:15 pm	EECH	00112	Ketcherside,J	
			Prerequisite							
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							
			Prerequisite							
	3.0- 3.0	72689	LEC	1B	MWF	11:00 - 11:50 am	H-SS	00201	Sheppard,K	
			Communication Emphasized							
			Prerequisite							
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	
			Prerequisite							
4097 Senior Project Prerequisites: History 2790 and senior standing.	3.0- 3.0	71686	LEC	1A	ARR	ARR	ARR		Fogg,S	
			Prerequisite							
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	
			Prerequisite							
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	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
1750 Introduction to Management Information Systems	3.0- 3.0		LEC	1A	MF	01:00 - 01:50 pm	TMH	00251	Chiu,Y
			All-digital class materials at significant savings						
3000 Special Problems	3.0- 3.0	70587	LAB	3A	W	01:00 - 01:50 pm	TMH	00251	Chiu,Y
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	3.0- 3.0	70589	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00120	Flachsbart,B
Prerequisite: A grade of "C" or better in either IS&T 1552 or Comp Sci 1575.			Prerequisite						
3333 Data Networks and Information Security	3.0- 3.0	72545	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00313	Twyman,N
Prerequisites: IS&T 1750; IS&T 1552 or Comp Sci 1510.			Prerequisite						
3343 Systems Analysis	3.0- 3.0	71005	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00313	Yu,W
Prerequisite: IS&T 3423.			Prerequisite						
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	3.0- 3.0	72996	LEC	1A	TTh	02:00 - 03:15 pm	FUL	00107A	Yu,W
Prerequisites: IS&T 3423.			Prerequisite						
4641 Digital Commerce and the Internet of Things	3.0- 3.0	70590	LEC	1A	MWF	01:00 - 01:50 pm	CS	00209	Bates,C
Prerequisites: IS&T 1750 and at least Sophomore standing.			Prerequisite						
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
	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	3.0- 3.0	72653	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00120	Flachsbart,B
Prerequisites: Graduate Standing, strong programming knowledge.			Prerequisite						
5420 Business Analytics and Data Science	3.0- 3.0	72098	LEC	1A	MWF	11:00 - 11:50 am	FUL	00107A	Hilgers,M
Prerequisites: Calculus, Statistics, and Programming knowledge.			Prerequisite						
5520 Data Science and Machine Learning with Python	3.0- 3.0	72654	LEC	1A	MWF	10:00 - 10:50 am	FUL	00107A	Chen,L
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.			Prerequisite						
5535 Machine Learning Algorithms and Applications	3.0- 3.0	73163	LEC	1A	MWF	02:00 - 02:50 pm	LIB	000G14	Chen,L
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.			Prerequisite						
5885 Human-Computer Interaction	3.0- 3.0	71996	LEC	1A	MWF	02:00 - 02:50 pm	CS	00209	Bates,C
Prerequisite: Psych 1101.			Prerequisite						
5887 Human-Computer Interaction Evaluation	3.0- 3.0		LEC	1A	ARR	ARR	ARR		Hall,R
Prerequisite: Preceded or accompanied by IS&T 5885.	3.0- 3.0	71007	LAB	3A	ARR	ARR	ARR		Hall,R
			Prerequisite						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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
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
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
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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	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	3.0- 3.0	72803	LEC	1A	MWF	09:00 - 09:50 am	EMGT	00201	Fahrenheit,W

Prerequisite: Graduate standing, or undergraduate standing with instructor and advisor approval.

6130 Kinetic Theory for Materials	3.0- 3.0	72064	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00245	O'Malley,R
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Prerequisite: Graduate standing, or undergraduate standing with instructor and advisor approval.

6210 Tissue Engineering II	3.0- 3.0	71863	LEC	1A	TTh	09:30 - 10:45 am	CH	00103	Semon,J
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Prerequisite: Graduate standing.
(Co-listed with Bio Sci 6240)

6220 Advanced Energy Materials	3.0- 3.0	71715	LEC	1A	M	07:00 - 09:30 pm	BERTELS	00B12A	Dogan,F
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Prerequisite: Graduate standing.

Mathematics

1000 Special Problems	0.0- 6.0	73105	IND	6A	ARR	ARR	ARR		Insall,E
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1103 Fundamentals Of Algebra	3.0- 3.0	71187	LEC	1A	MWF	11:00 - 11:50 am	TMH	00295	Maples,J
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Prerequisite: Entrance requirements.

1120 College Algebra	5.0- 5.0	70593	LEC	1A	MWF	10:00 - 10:50 am	TMH	00199	Kinder,K
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Prerequisite: By placement examination.

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	TMH	00199	Kinder,K
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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	TMH	00199	Kinder,K
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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	TMH	00199	Kinder,K
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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	TMH	00199	Kinder,K
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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	TMH	00199	Kinder,K
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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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	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 Prerequisite: By placement examination. Class will meet daily Jan. 22 through March 12. Final exam Wed., March 13th 4:00-6:00 pm.	3.0- 3.0	70594	LEC	1A	MTWThF	08:00 - 08:50 am	CH	00104	Sherman,K
						"Restricted enrollment: contact math department for more information". MOTR MATH 130: Pre-Calculus Algebra MOTR MATH 150: Pre-Calculus			
1160 Trigonometry Prerequisite: Math 1120 or 1140 with a grade of "C" or better; or by placement exam.	2.0- 2.0	70597	LEC	1A	ARR	ARR	ARR		Sherman,K
						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 Prerequisite			
	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. MOTR MATH 150: Pre-Calculus Prerequisite			
	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 Prerequisite			
	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. MOTR MATH 150: Pre-Calculus Prerequisite			
	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. MOTR MATH 150: Pre-Calculus Prerequisite			
	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. MOTR MATH 150: Pre-Calculus Prerequisite			
	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. MOTR MATH 150: Pre-Calculus Prerequisite			

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	4.0- 4.0	72281	LAB	3M	Th	03:30 - 04:45 pm	PHYS	00127	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72282	LAB	3N	T	06:00 - 07:15 pm	PHYS	00127	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72283	LAB	3P	T	07:30 - 08:45 pm	PHYS	00127	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72284	LAB	3Q	Th	06:00 - 07:15 pm	PHYS	00127	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72285	LAB	3R	Th	07:30 - 08:45 pm	PHYS	00127	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72422	LAB	3T	Th	08:00 - 09:15 am	CS	00204	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72423	LAB	3U	Th	09:30 - 10:45 am	CS	00204	
									See 'Notes' for Evening Exams
									Prerequisite
1215	0.0- 0.0	72286	LEC	1A	MWF	09:00 - 09:50 am	BCH	00125	Kinder,K
									Calculus For Engineers II
									Prerequisites: Math 1160 and either Math 1208 or Math 1214 both with a grade of "C" or better; or by placement exam.
									All students in Math 1215 are scheduled for exams at 5:00pm on Thur., Feb. 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
									Prerequisite
	0.0- 0.0	72287	LEC	1B	MWF	10:00 - 10:50 am	BCH	00125	Ong,V
									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
									Prerequisite
	0.0- 0.0	72288	LEC	1C	MWF	12:00 - 12:50 pm	TMH	00199	Kinder,K
									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
									Prerequisite
	4.0- 4.0	72289	LAB	3A	T	08:00 - 09:15 am	CS	00202	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72290	LAB	3B	T	09:30 - 10:45 am	CS	00202	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72291	LAB	3C	Th	08:00 - 09:15 am	CS	00202	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72292	LAB	3D	Th	09:30 - 10:45 am	CS	00202	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72293	LAB	3E	T	08:00 - 09:15 am	CS	00204	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72294	LAB	3F	T	09:30 - 10:45 am	CS	00204	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72295	LAB	3G	T	11:00 - 12:15 pm	CS	00204	
									See 'Notes' for Evening Exams
									Prerequisite

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	4.0- 4.0	72296	LAB	3H	T	12:30 - 01:45 pm	CS	00204	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72297	LAB	3L	Th	11:00 - 12:15 pm	CS	00204	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72298	LAB	3M	Th	12:30 - 01:45 pm	CS	00204	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72299	LAB	3N	T	02:00 - 03:15 pm	EECH	00111	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72300	LAB	3P	T	03:30 - 04:45 pm	EECH	00103	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72301	LAB	3Q	Th	02:00 - 03:15 pm	EECH	00111	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72302	LAB	3R	Th	03:30 - 04:45 pm	EECH	00103	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72303	LAB	3T	T	02:00 - 03:15 pm	BCH	00216	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72304	LAB	3U	T	03:30 - 04:45 pm	EECH	00111	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72305	LAB	3V	Th	02:00 - 03:15 pm	BCH	00216	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72306	LAB	3W	Th	03:30 - 04:45 pm	EECH	00111	
									See 'Notes' for Evening Exams
									Prerequisite
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
									Prerequisite
		0.0- 0.0	LEC	1B	MWF	02:00 - 02:50 pm	TMH	00199	Han,D
									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
									Prerequisite
		0.0- 0.0	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
									Prerequisite
	4.0- 4.0	72473	LAB	3A	T	08:00 - 09:15 am	BCH	00314	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72474	LAB	3B	T	09:30 - 10:45 am	BCH	00216	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72475	LAB	3C	T	11:00 - 12:15 pm	BCH	00314	
									See 'Notes' for Evening Exams
									Prerequisite

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	4.0- 4.0	72476	LAB	3D	Th	08:00 - 09:15 am	BCH	00314	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72477	LAB	3E	Th	09:30 - 10:45 am	BCH	00216	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72478	LAB	3F	Th	11:00 - 12:15 pm	BCH	00314	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72479	LAB	3G	T	02:00 - 03:15 pm	CSF	00G5E	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72480	LAB	3H	Th	02:00 - 03:15 pm	CSF	00G5E	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72481	LAB	3J	T	08:00 - 09:15 am	CSF	00G5D	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72482	LAB	3K	T	12:30 - 01:45 pm	IDE	00206	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72483	LAB	3L	Th	08:00 - 09:15 am	CSF	00G5D	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72484	LAB	3M	Th	12:30 - 01:45 pm	IDE	00206	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72485	LAB	3N	T	02:00 - 03:15 pm	IDE	00206	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72486	LAB	3P	T	03:30 - 04:45 pm	IDE	00206	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72487	LAB	3Q	Th	02:00 - 03:15 pm	IDE	00206	
									See 'Notes' for Evening Exams
									Prerequisite
	4.0- 4.0	72488	LAB	3R	Th	03:30 - 04:45 pm	IDE	00206	
									See 'Notes' for Evening Exams
									Prerequisite
3108	Linear Algebra I								
	Prerequisite: Math 1215 or 1221 or 2222 with a grade of "C" or better.								
	3.0- 3.0	70607	LEC	1A	MWF	09:00 - 09:50 am	TMH	00256	Chen-Murphy,X
									Prerequisite
	3.0- 3.0	70608	LEC	1B	TTh	02:00 - 03:15 pm	ROLLA	000G5	Insall,E
									Prerequisite
	3.0- 3.0	70609	LEC	1C	MWF	12:00 - 12:50 pm	BERTELS	00B10	Runnion,P
									Prerequisite
3109	Foundations Of Mathematics								
	Prerequisite: Math 1215 or 1221 with a grade of "C" or better.								
	3.0- 3.0	70610	LEC	1A	MWF	09:00 - 09:50 am	ROLLA	000G5	Charatonik,W
									Prerequisite
3304	Elementary Differential Equations								
	Prerequisite: Math 2222 with a grade of "C" or better.								
	3.0- 3.0	70601	LEC	1A	MWF	09:00 - 09:50 am	FUL	00227	Yeni,G
									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
									Prerequisite
	3.0- 3.0	70602	LEC	1B	MWF	10:00 - 10:50 am	CS	00216	Singler,J
									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
									Prerequisite
	3.0- 3.0	70603	LEC	1C	MWF	10:00 - 10:50 am	CSF	00G5D	Akin,E
									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
									Prerequisite

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	3.0- 3.0	70604	LEC	1D	MWF	10:00 - 10:50 am	FUL	00227	Yeni,G	
									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	
									Prerequisite	
	3.0- 3.0	70605	LEC	1E	MWF	11:00 - 11:50 am	MCNT	00206	Fitch,S	
									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	
									Prerequisite	
	3.0- 3.0	70606	LEC	1F	MWF	01:00 - 01:50 pm	FUL	00227	Guan,Q	
									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	
									Prerequisite	
	3.0- 3.0	71509	LEC	1G	MWF	02:00 - 02:50 pm	TMH	00250	Guan,Q	
									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	
									Prerequisite	
	3.0- 3.0	71192	LEC	1H	TTh	09:30 - 10:45 am	FUL	00227	Zhang,Y	
									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	
									Prerequisite	
	3.0- 3.0	71223	LEC	1J	TTh	11:00 - 12:15 pm	TMH	00256	Qiu,C	
									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	
									Prerequisite	
	3.0- 3.0	71966	LEC	1K	MWF	11:00 - 11:50 am	CSF	00G5D	Akin,E	
									All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 21; Apr. 4; and May 2.	
									Prerequisite	
	3.0- 3.0	72243	LEC	1L	MWF	09:00 - 09:50 am	CS	00202	Singler,J	
									All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 21; Apr. 4; and May 2.	
									Prerequisite	
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	
4099	Undergraduate Research	0.0- 6.0	71401	IND	6A	ARR	ARR	ARR	Charatonik,W	
	Prerequisite: Consent of instructor.	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	3.0- 3.0	71269	LEC	1A	MWF	02:00 - 02:50 pm	ROLLA	000G5	Clark,S
	Prerequisite: Math 2222 and Math 3109, or a 4000-level or higher mathematics course, or graduate standing.								Communication Emphasized	
									Prerequisite	
4211	Advanced Calculus II	3.0- 3.0	70614	LEC	1A	MWF	02:00 - 02:50 pm	CSF	00G5D	Grow,D
	Prerequisite: Math 4209.								Prerequisite	
4530	Topics In Geometry	3.0- 3.0	70617	LEC	1A	MWF	08:00 - 08:50 am	ROLLA	000G4	Chen-Murphy,X
	Prerequisites: MATH 3108.								Prerequisite	
5040	Oral Examination	0.0- 0.0	70624	IND	6A	ARR	ARR	ARR		
	Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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
									Prerequisite
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
									Prerequisite
5215 Introduction To Real Analysis Prerequisite: Math 4209.	3.0- 3.0	70615	LEC	1A	CANCELLED				
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
									Prerequisite
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
									Prerequisite
5585 Introduction To Topology Prerequisite: Math 4209.	3.0- 3.0	72389	LEC	1A	MWF	12:00 - 12:50 pm	EMGT	00111	Charatonik,W
									Prerequisite
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
									Prerequisite
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
	0.0- 6.0	73633	IND	6E	ARR	ARR	ARR		He,X
6001 Special Topics Prerequisites: Math 5325 or Math 6601 or Math 6602.	3.0- 3.0	73531	LEC	1A	MWF	01:00 - 01:50 pm	CSF	00114	He,X
									Math Fndtn Finite Elmt Mthd II
									UM Shared Course-Primary
	3.0- 3.0	73643	LEC	1B	MWF	11:00 - 11:50 am	ROLLA	000G4	Hu,W
									Nonlinear Optimization
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				
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	CANCELLED				
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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6601 Numerical Analysis Prerequisites: Any 4000 or higher level MATH course, or any instructor approved 4000 or higher level course from another discipline with a significant computational component.	3.0- 3.0	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	CANCELLED				
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.
									See 'Notes'-Additional Meeting
	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
	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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	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.	
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.									Prerequisite
2350	Engineering Mechanics-Dynamics	2.0- 2.0	70088	LEC	1A	TTh	09:30 - 10:20 am	TMH	00199	Stutts,D
	Prerequisites: A grade of "C" or better in each of Civ Eng 2200 and Math 2222.									Prerequisite
2360	Dynamics	3.0- 3.0	71016	LEC	1A	MWF	09:00 - 09:50 am	TMH	00254	Abbas,M
	Prerequisite: Grade of "C" or better in each of Civ Eng 2200, Math 2222. (Co-listed with Aero Eng 2360)									Prerequisite
		3.0- 3.0	71408	LEC	1B	TTh	12:30 - 01:45 pm	BERTELS	00B10	Kumar,N
										Prerequisite
		3.0- 3.0	72192	LEC	1C	TTh	02:00 - 03:15 pm	TMH	00199	Du,X
										Prerequisite
2519	Thermodynamics	3.0- 3.0	70636	LEC	1B	MWF	10:00 - 10:50 am	TMH	00295	Meeks,W
										Prerequisite
		3.0- 3.0	72238	LEC	1C	MWF	11:00 - 11:50 am	BCH	00124	Meeks,W
										Prerequisite
		3.0- 3.0	72920	LEC	1D	MWF	01:00 - 01:50 pm	TMH	00199	Gao,J
										Prerequisite
2527	Thermal Analysis	3.0- 3.0	70639	LEC	1A	TTh	08:00 - 09:15 am	EMGT	00103	Staggs,J
	Prerequisites: Math 1215 or Math 1221; Physics 1135 or Phys 1111.									Prerequisite
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 Lec AA is scheduled with each lab of Mech Eng 2653.									Lab C will make arrangements to meet 2 hours in an afternoon for the first five weeks.
		3.0- 3.0	70627	LAB	3A	M	01:00 - 03:30 pm	TMH	00176	Lewis,R
										Prerequisite
		3.0- 3.0	70628	LAB	3B	M	04:00 - 06:30 pm	TMH	00176	Lewis,R
										Prerequisite
		3.0- 3.0	71272	LAB	3C	Th	08:15 - 10:45 am	TMH	00176	Lewis,R
										Prerequisite
										See 'Notes'-Additional Meeting
		3.0- 3.0	70629	LAB	3D	T	12:00 - 02:30 pm	TMH	00176	Lewis,R
										Prerequisite
		3.0- 3.0	70630	LAB	3E	T	03:00 - 05:30 pm	TMH	00176	Lewis,R
										Prerequisite
		3.0- 3.0	70631	LAB	3F	W	01:00 - 03:30 pm	TMH	00176	Lewis,R
										Prerequisite
		3.0- 3.0	71083	LAB	3G	Th	12:00 - 02:30 pm	TMH	00176	Lewis,R
										Prerequisite
		3.0- 3.0	71185	LAB	3H	Th	03:00 - 05:30 pm	TMH	00176	Lewis,R
										Prerequisite
		3.0- 3.0	71273	LAB	3J	F	01:00 - 03:30 pm	TMH	00176	Lewis,R
										Prerequisite
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.									Prerequisite
		3.0- 3.0	71291	LAB	3A	F	01:00 - 01:50 pm	TMH	00200	Hutcheson,R
										Prerequisite
		3.0- 3.0	71292	LAB	3B	F	02:00 - 02:50 pm	TMH	00200	Hutcheson,R
										Prerequisite
		3.0- 3.0	71293	LAB	3C	F	03:00 - 03:50 pm	TMH	00200	Hutcheson,R
										Prerequisite
		3.0- 3.0	72239	LAB	3D	F	12:00 - 12:50 pm	TMH	00200	Hutcheson,R
										Prerequisite
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.									Prerequisite
		3.0- 3.0	70640	LEC	1B	TTh	11:00 - 12:15 pm	PHYS	00104	Wang,C
										Prerequisite

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3313 Machine Dynamics 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.	3.0- 3.0	71945	LEC	1B	MWF	11:00 - 11:50 am	TMH	00199	Hutcheson,R
									Prerequisite
3411 Modeling and Analysis of Dynamic Systems 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	70634	LEC	1A	MWF	08:00 - 08:50 am	TMH	00199	Kumar,N
									Prerequisite
	3.0- 3.0	70635	LEC	1B	MWF	12:00 - 12:50 pm	MCNT	00204	Krishnamurthy,K
									Prerequisite
3521 Applied Thermodynamics Prerequisite: A grade of "C" or better in Mech Eng 2519.	3.0- 3.0	70637	LEC	1A	CANCELLED				
	3.0- 3.0	71480	LEC	1B	TTh	08:00 - 09:15 am	TMH	00295	Han,D
									Prerequisite
	3.0- 3.0	72922	LEC	1C	TTh	09:30 - 10:45 am	BERTELS	00B10	Koylu,U
									Prerequisite
3525 Heat Transfer 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	71744	LEC	1A	MWF	02:00 - 02:50 pm	EMGT	00103	Homan,K
									Prerequisite
	3.0- 3.0	70638	LEC	1B	MWF	01:00 - 01:50 pm	PHYS	00104	Yang,X
									Prerequisite
3653 Manufacturing Prerequisites: Mech Eng 2653, Civ Eng 2211, and a grade of "C" or better in Civ Eng 2210.	3.0- 3.0	70649	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00250	Okafor,A
									Prerequisite
	3.0- 3.0	72240	LEC	1B	TTh	09:30 - 10:45 am	BCH	00101	Chen,L
									Prerequisite
3708 Machine Design I Prerequisites: Mech Eng 2653; accompanied or preceded by Mech Eng 2761; Met Eng 2110 or Aero Eng 3877; and a grade of "C" or better in Civ Eng 2210.	3.0- 3.0	70633	LEC	1A	TTh	11:00 - 12:15 pm	BERTELS	00B10	Nisbett,J
									Prerequisite
	3.0- 3.0	72693	LEC	1B	TTh	12:30 - 01:45 pm	TMH	00256	Dong,X
									Prerequisite
4000 Special Problems Prerequisite: Consent of instructor.	0.0- 6.0	70658	IND	6A	ARR	ARR	ARR		Hutcheson,R
	0.0- 6.0	71617	IND	6B	ARR	ARR	ARR		Nisbett,J
4099 Undergraduate Research Prerequisite: Consent of instructor required.	0.0- 6.0	70663	IND	6A	ARR	ARR	ARR		Balakrishnan,S
	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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
4479 Automatic Control Of Dynamic Systems Prerequisite: A grade of "C" or better in Mech Eng 3411.	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	
	3.0- 3.0	70652	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00295	Song,Y	
4480 Control System Laboratory Prerequisites: Preceded or accompanied by Mech Eng 4479. Students are scheduled for one exam: time and place to be announced.	3.0- 3.0	72619	LEC	1B	MWF	02:00 - 02:50 pm	MCNT	00204	Song,Y	
									Prerequisite	
									All-digital class materials at significant savings	
									Prerequisite	
	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.	
									Prerequisite	
	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.	
									Prerequisite	
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.		
								Prerequisite		
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.		
								Prerequisite		
1.0- 1.0	70656	LAB	3E	T	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.		
								Prerequisite		
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.		
								Prerequisite		
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.		
								Prerequisite		
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.		
								Prerequisite		
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	
									Prerequisite	
	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	
									Prerequisite	
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		
									Prerequisite	
				LAB	3A	MW	02:00 - 02:50 pm	BCH	00125	Cottrell,M
									Prerequisite	
	2.0- 2.0	70643	LAB	3B	T	11:00 - 12:50 pm	TMH	00317	Cottrell,M	
								Prerequisite		
			LAB	3B	MW	02:00 - 02:50 pm	BCH	00125		
								Prerequisite		
2.0- 2.0	70644	LAB	3C	T	01:00 - 02:50 pm	TMH	00317	Cottrell,M		
								Prerequisite		

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				LAB 3C	MW	02:00 - 02:50 pm	BCH	00125	
				Prerequisite					
	2.0- 2.0	70645		LAB 3D	MW	02:00 - 02:50 pm	BCH	00125	
				Prerequisite					
				LAB 3D	T	03:00 - 04:50 pm	TMH	00317	Cottrell,M
				Prerequisite					
	2.0- 2.0	71142		LAB 3E	MW	02:00 - 02:50 pm	BCH	00125	
				Prerequisite					
				LAB 3E	W	03:00 - 04:50 pm	TMH	00317	Cottrell,M
				Prerequisite					
	2.0- 2.0	71274		LAB 3F	Th	09:00 - 10:50 am	TMH	00317	Cottrell,M
				Prerequisite					
				LAB 3F	MW	02:00 - 02:50 pm	BCH	00125	
				Prerequisite					
	2.0- 2.0	71796		LAB 3G	MW	02:00 - 02:50 pm	BCH	00125	
				Prerequisite					
				LAB 3G	Th	03:00 - 04:50 pm	TMH	00317	Cottrell,M
				Prerequisite					
	2.0- 2.0	71275		LAB 3H	Th	01:00 - 02:50 pm	TMH	00317	Cottrell,M
				Prerequisite					
				LAB 3H	MW	02:00 - 02:50 pm	BCH	00125	
				Prerequisite					
	2.0- 2.0	71307		LAB 3J	F	12:00 - 01:50 pm	TMH	00317	Cottrell,M
				Prerequisite					
				LAB 3J	MW	02:00 - 02:50 pm	BCH	00125	
				Prerequisite					
	2.0- 2.0	71908		LAB 3K	Th	11:00 - 12:50 pm	TMH	00317	
				Prerequisite					
				LAB 3K	MW	02:00 - 02:50 pm	BCH	00125	Cottrell,M
				Prerequisite					
	2.0- 2.0	72627		LAB 3L	W	12:00 - 01:50 pm	TMH	00317	
				Prerequisite					
				LAB 3L	MW	02:00 - 02:50 pm	BCH	00125	Cottrell,M
				Prerequisite					
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					
				Prerequisite					
				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					
				Prerequisite					
		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					
				Prerequisite					
				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					
				Prerequisite					
		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					
				Prerequisite					

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			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						
			Prerequisite						
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						
			Prerequisite						
		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						
			Prerequisite						
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						
			Prerequisite						
		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						
			Prerequisite						
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						
			Prerequisite						
		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						
			Prerequisite						
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						
			Prerequisite						
		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						
			Prerequisite						
2.0- 2.0	73590	LAB	3H	W		03:00 - 03:50 pm	TMH	00199	Stutts,D
			See 'Notes'-Additional Meeting						
			Communication Emphasized						
			Prerequisite						
		LAB	3H	M		04:00 - 05:50 pm	TMH	00316	
			See 'Notes'-Additional Meeting						
			Communication Emphasized						
			Prerequisite						
5000	Special Problems	0.0- 6.0	70684	IND	6A	ARR	ARR	ARR	Leu,M
		0.0- 6.0	70685	IND	6B	ARR	ARR	ARR	Liou,F
		0.0- 6.0	70979	IND	6C	ARR	ARR	ARR	Okafor,A

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.	3.0- 3.0	73223	LEC	1B	TTh	09:30 - 10:45 am	MCNT	00243	Park,J
									Modeling Energy Material
	3.0- 3.0	73222	LEC	1C					CANCELLED
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	73220	LEC	1A	W	04:00 - 06:30 pm	BERTELS	00B12B	Birman,V
									Prerequisite
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
									Prerequisite
5282 Introduction to Composite Materials & Structures Prerequisite: Civ Eng 2210. (Co-listed with Aero Eng 5282)	3.0- 3.0	71001	LEC	1A	TTh	09:30 - 10:45 am	BCH	00213	Chandrashekhara,K
									Prerequisite
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	MWF	10:00 - 10:50 am	BCH	00213	Krishnamurthy,K
									Prerequisite
	3.0- 3.0	73465	LAB	3A	ARR	ARR	ARR		Krishnamurthy,K
									Additional lab meeting times to be arranged.
									Prerequisite
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
									Prerequisite
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
									Prerequisite
5537 Fuel Cell Principles Prerequisites: MECH ENG 3521.	3.0- 3.0	72057	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00249	Koylu,U
									All-digital class materials at significant savings
									Prerequisite
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
5575 Mechanical Systems For Environmental Control Prerequisites: Mech Eng 3521 and 3525; or Mech Eng 2527 and Civ Eng 3330.	3.0- 3.0	71881	LEC	1A	T	07:00 - 09:30 pm	BCH	00121	Williams JR,G
									Prerequisite
5653 Computer Numerical Control of Manufacturing Processes Prerequisites: Preceded or accompanied by Mech Eng 3653.	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	TMH	00256	Okafor,A
									Prerequisite
	3.0- 3.0	70662	LAB	3A	F	10:00 - 11:50 am	TMH	00197	Okafor,A
									Prerequisite
	3.0- 3.0	71426	LAB	3B	W	01:00 - 02:50 pm	TMH	00197	Okafor,A
									Prerequisite
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
									Prerequisite
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
									Prerequisite
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
									Prerequisite
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					CANCELLED
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
									Prerequisite
6001 Special Topics	3.0- 3.0	73226	LEC	1A	TTh	12:30 - 01:45 pm	EMGT	00104	Chen,L
									Fund Metal Additive Mfg Proces
	3.0- 3.0	73503	LEC	1B	MWF	09:00 - 09:50 am	LIB	000G14	Homan,K
									Adv Comp Thermofluid
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	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
									Students enrolled in Met 2110 will meet for four one-hour quiz sessions dates to be announced.
	3.0- 3.0	70716	LEC	1B	MWF	11:00 - 11:50 am	MCNT	00204	Miller,F
									Students enrolled in Met 2110 will meet for four one-hour quiz sessions dates to be announced.
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
									Prerequisite
			LAB	3A	M	02:00 - 03:50 pm	MCNT	00233	
									Prerequisite
	1.0- 1.0	71062	LAB	3B	W	01:00 - 01:50 pm	MCNT	00212	Moats,M
									Prerequisite
			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
									Prerequisite
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
									Prerequisite

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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		
	0.0- 6.0	73666	IND	6H	ARR	ARR	ARR		Convertine,A
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
									Prerequisite
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		LEC	1A	MW	11:00 - 11:50 am	MCNT	00265	Alagha,L
									Prerequisite
	3.0- 3.0	71606	LAB	3A	ARR	ARR	ARR		Alagha,L
									Prerequisite
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
									Prerequisite
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
									Prerequisite
5525 Scanning Electron Microscopy Lab Prerequisite: Preceded or accompanied by Met Eng 5520.	1.0- 1.0	72810	LAB	3A	W	09:00 - 11:50 am	MCNT	000B18	Wisner,C
									Prerequisite
	1.0- 1.0	72811	LAB	3B	W	01:00 - 03:50 pm	MCNT	000B18	Wisner,C
									Prerequisite
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
6320 Advanced Steels and Their Treatment Prerequisites: Met Eng 3130 and Met Eng 2125.	3.0- 3.0	73665	LEC	1A	TTh	02:00 - 03:15 pm	MCNT	00210	Van Aken,D
6535 Transmission Electron Microscopy Lab Prerequisite: Preceded or accompanied by Met Eng 5520.	1.0- 1.0	72812	LAB	3A	T	01:00 - 03:50 pm	MCNT	000B18	Chen,W
	1.0- 1.0	72813	LAB	3B	W	01:00 - 03:50 pm	MCNT	000B18	Chen,W

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
									Prerequisite

CATALOG #	COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3500	Leadership in Changing Environments Prerequisites: Mil Army 3250 - Exceptions to be made by Department Chair Only In Accordance With Army (Cadet Command) Policies.	3.0- 3.0		LEC	1A	TTh	08:00 - 08:50 am	HARR	00302	Richard,S
				Prerequisite						
		3.0- 3.0	70734	LAB	3A	W	03:30 - 05:00 pm	ARR		Richard,S
				Prerequisite						
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
				Prerequisite						
4500	Leadership in a Complex World Prerequisite: Mil Army 4250 - Exceptions to be made by Department Chair Only In Accordance With Army (Cadet Command) Policies.	3.0- 3.0		LEC	1A	MW	12:00 - 12:50 pm	HARR	00107	Register,O
				Prerequisite						
		3.0- 3.0	70737	LAB	3A	W	03:30 - 05:00 pm	ARR		Register,O
				Prerequisite						

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						
2412	Principles Of Mineral Processing	3.0- 3.0		LEC	1A	MW	08:00 - 08:50 am	MCNT	00206	Alagha,L
		3.0- 3.0	71133	LAB	3A	F	01:00 - 03:45 pm	ARR		Alagha,L
4000	Special Problems	0.0- 6.0	70741	IND	6A	ARR	ARR	ARR		Alagha,L
		0.0- 6.0	70742	IND	6B	ARR	ARR	ARR		Aouad,N
		0.0- 6.0	71154	IND	6C	ARR	ARR	ARR		Awuah-Offei,K
		0.0- 6.0	71500	IND	6D	ARR	ARR	ARR		Frimpong,S
		0.0- 6.0	71712	IND	6E	ARR	ARR	ARR		Galecki,G
		0.0- 6.0	72395	IND	6H	ARR	ARR	ARR		Worsey,P
4097	Capstone Design Project Prerequisite: Min Eng 4096.	4.0- 4.0		LEC	1A	M	10:00 - 10:50 am	MCNT	00114	Aouad,N
				Prerequisite						
				LEC	1A	W	10:00 - 10:50 am	MCNT	00114	
				Prerequisite						
		4.0- 4.0	70746	LAB	3A	F	02:15 - 04:45 pm	MCNT	000B14	
				Prerequisite						
				LAB	3A	TTh	02:15 - 04:45 pm	MCNT	00114	Aouad,N
				Prerequisite						
4099	Undergraduate Research	0.0- 6.0	70743	IND	6A	ARR	ARR	ARR		Awuah-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	Smith,J
				Prerequisite						
5000	Special Problems	0.0- 6.0	73180	IND	6A	ARR	ARR	ARR		Awuah-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
				Prerequisite						
		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
				Prerequisite						
		3.0- 3.0	72214	LAB	3A	ARR	ARR	ARR		Alagha,L
				Prerequisite						
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	LIB	000G14	Awuah-Offei,K
				Prerequisite						
		3.0- 3.0	72539	LAB	3A	Th	11:00 - 12:15 pm	MCNutt	234	Ur Rehman,A
				Prerequisite						
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	Awuah-Offei,K
				Prerequisite						
5823	Rock Mechanics Prerequisites: Physics 2135; Civ Eng 2210; Geology 3310. Field trip required.	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	TMH	00260	Sherizadeh,T
				Prerequisite						
		3.0- 3.0	73580	LAB	3A	F	11:00 - 11:50 am	MCNT	00114	Sherizadeh,T
				Prerequisite						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5922 Tunneling & Underground Construction Techniques Prerequisites: Min Eng 4922 or Consent of Instructor.	3.0- 3.0		LEC	1A		CANCELLED			
	3.0- 3.0	72738	LEC	1B	ARR	00:00 - 00:00 am			Perry,K
			Prerequisite						
	3.0- 3.0	72141	LAB	3A	ARR	00:00 - 00:00 am			Perry,K
			Prerequisite						
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
			Prerequisite						
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		Awuah-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
			Intgrate NEPA and Proj Mgmt						
	3.0- 3.0	73507	LEC	1B	TTh	02:00 - 03:15 pm	ARR		Frimpong,S
			Truck Haulage Engr						
	3.0- 3.0		LEC	1C	TTh	01:00 - 02:15 pm	CS	00207	Alagha,L
			Advanced Flotation						
	3.0- 3.0	73514	LAB	3C	ARR	ARR	ARR		Alagha,L
			Advanced Flotation						
6010 Seminar	1.0- 1.0	70747	RSD	2A	M	12:00 - 12:50 pm	MCNT	00216	Awuah-Offei,K
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70753	IND	6A	ARR	ARR	ARR		
6050 Continuous Registration	1.0- 1.0	70754	IND	6A	ARR	ARR	ARR		Awuah-Offei,K
6099 Research	0.0-15.0	70748	IND	6A	ARR	ARR	ARR		Alagha,L
	0.0-15.0	70749	IND	6B	ARR	ARR	ARR		Aouad,N
	0.0-15.0	70750	IND	6C	ARR	ARR	ARR		Awuah-Offei,K
	0.0-15.0	71375	IND	6D	ARR	ARR	ARR		Frimpong,S
	0.0-15.0	70751	IND	6E	ARR	ARR	ARR		Galecki,G
	0.0-15.0	70752	IND	6G	ARR	ARR	ARR		Homan,K
	0.0-15.0	73673	IND	6H	ARR	ARR	ARR		Sherizadeh,T
6522 Mining Property Feasibility Studies And Evaluation Procedure Prerequisite: Min Eng 3512 or Geology 3511 or Min Eng 4742 or Geophys 3251.	3.0- 3.0		LEC	1A	TTh	09:30 - 10:45 am	MCNT	00265	Weiss,D
	3.0- 3.0	73404	LAB	3A	ARR	ARR	ARR		Weiss,D
6936 Surface Mine Design Prerequisite: Min Eng 4933 or equivalent.	3.0- 3.0	72196	LEC	1A	ARR	ARR	ARR		Frimpong,S

Music

1111 Individual Music Instruction I Prerequisite: Consent of instructor required.	1.0- 1.0	70755	LAB	3A	ARR	ARR	ARR		Francis,L
			Piano						
	1.0- 1.0	71657	LAB	3C	ARR	ARR	ARR		Cress,D
			Brass only						
1121 Individual Music Instruction II Consent of instructor required.	1.0- 2.0	70756	LAB	3A	ARR	ARR	ARR		Francis,L
			Piano						
1130 Wind Symphony	2.0- 2.0	70757	LAB	3A	MWF	12:00 - 12:50 pm	CASTL	00137	Samson,D
1132 University Orchestra	2.0- 2.0	70758	LAB	3A	M	07:00 - 09:30 pm	CASTL	00137	Wernke,K
			(Symphony Orchestra)						
1134 Instrumental Chamber Ensemble-Strings	1.0- 1.0	70759	LAB	3A	Th	07:00 - 09:00 pm	CASTL	00137	Wernke,K
			(Chamber Orchestra)						
1135 Symphonic Band	0.0- 2.0	72526	LAB	3A	TWTh	04:00 - 04:50 pm	CASTL	00137	Cress,D
			MOTR PERF 102B: Music Performance-Band						
			MOTR PERF 102C: Music Performance-Orchestra						
1136 Jazz Ensemble Prerequisite: Consent of instructor.	1.0- 1.0	70760	LAB	3A	T	06:00 - 08:30 pm	CASTL	00137	Cress,D
1140 University Choir	1.0- 1.0	70761	LAB	3A	TTh	02:00 - 03:15 pm	CASTL	00138	Francis,L
			MOTR PERF 102C: Music Performance-Choir						
1141 Chamber Vocal Ensembles	1.0- 1.0	71163	LAB	3A	TTh	12:30 - 01:45 pm	CASTL	00138	Francis,L
			Audition						
1150 Music Understanding And Appreciation	3.0- 3.0	71035	LEC	1A	MWF	02:00 - 02:50 pm	CASTL	00138	Francis,L
			MOTR MUSC 100: Music Appreciation						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
2111 Individual Music Instruction III Consent of instructor required.	1.0- 2.0	70762	LAB	3A	ARR	ARR	ARR		Francis,L
	1.0- 2.0	72448	LAB	3B	ARR	ARR	ARR		Cress,D
2121 Individual Music Instruction IV Consent of instructor required.	1.0- 2.0	70763	LAB	3A	ARR	ARR	ARR		Francis,L
2162 Theory of Music II Prerequisite: Music 2161.	3.0- 3.0	73402	LEC	1A	TTh	09:30 - 10:45 am	CASTL	00137	Samson,D
3000 Special Problems	0.0- 6.0	70764	IND	6A	ARR	ARR	ARR		Francis,L

Nuclear Engineering

1105 Nuclear Technology Applications	1.0- 1.0	70765	LEC	1A	M	11:00 - 11:50 am	FUL	00220	Castano,C
2001 Special Topics Prerequisites: Must be accompanied by Comp Sci 1971 or Comp Sci 1972.	1.0- 1.0	73663	LEC	1A	W	12:00 - 12:50 pm	BCH	00110	Schlegel,J
2105 Introduction To Nuclear Engineering Prerequisite: Math 1215 or Math 1221.	2.0- 2.0	71034	LEC	1A	TTh	02:00 - 02:50 pm	FUL	00227	Castano,C
2406 Reactor Operations I Prerequisites: Math 1214 or Math 1208; preceded or accompanied by Nuc Eng 1105.	1.0- 1.0	70768	LAB	3A	M	02:00 - 02:50 pm	ARR		Graham,J
	1.0- 1.0	72349	LAB	3B	T	09:00 - 09:50 am	ARR		Graham,J
	1.0- 1.0	72350	LAB	3C	T	02:00 - 02:50 pm	ARR		Graham,J
3000 Special Problems	0.0- 6.0	70766	IND	6A	ARR	ARR	ARR		Lee,H
3103 Interactions Of Radiation With Matter Prerequisites: Math 2222, Physics 2135.	3.0- 3.0	72529	LEC	1A	MWF	01:00 - 01:50 pm	FUL	00220	Graham,J
3205 Fundamentals Of Nuclear Engineering Prerequisite: Physics 2305 or Nuc Eng 3103; Math 3304.	3.0- 3.0	71895	LEC	1A	TTh	09:30 - 10:45 am	CSF	00G5D	
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	71116	LAB	3A	T	02:00 - 04:45 pm	FUL	00214	Lee,H

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	3.0- 3.0	71117	LAB	3B	W	02:00 - 04:45 pm	FUL	00214	Lee,H	
			Communication Emphasized							
			Prerequisite							
	3.0- 3.0	71625	LAB	3C	Th	02:00 - 04:45 pm	FUL	00214	Lee,H	
			Communication Emphasized							
			Prerequisite							
4345	Nuclear Engineering Mathematical Methods	3.0- 3.0	73183	LEC	1A	MWF	09:00 - 09:50 am	FUL	00209	Mueller,G
	Prerequisites: Nuc Eng 4203.									
			Prerequisite							
4347	Radiological Engineering	3.0- 3.0	71575	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00254	Usman,S
	Prerequisite: Nuc Eng 3205.									
			Prerequisite							
4361	Fusion Fundamentals	3.0- 3.0	73410	LEC	1A	MWF	11:00 - 11:50 am	BCH	00314	Graham,J
	Prerequisite: Preceded or accompanied by Math 3304.									
4438	Reactor Laboratory II	2.0- 2.0		LEC	1A	M	02:00 - 02:50 pm	FUL	00220	Castano,C
	Prerequisite: Nuc Eng 4428.									
			Prerequisite							
	2.0- 2.0	70775	LAB	3A	ARR	ARR	ARR		Castano,C	
			Prerequisite							
4456	Reactor Operation II	1.0- 1.0	71428	LAB	3A	ARR	ARR	ARR		Graham,J
	Prerequisite: Nuc Eng 2105, 2406.									
			Prerequisite							
4497	Nuclear System Design II	3.0- 3.0	70778	LEC	1A	T	02:00 - 04:45 pm	FUL	00220	Alajo,A
	Prerequisite: Nuc Eng 4496.									
			Prerequisite							
5203	Reactor Physics I	3.0- 3.0	71983	LEC	1A	MWF	10:00 - 10:50 am	FUL	00220	Usman,S
	Prerequisite: Nuc Eng 3205.									
			Prerequisite							
5257	Introduction to Nuclear Thermal Hydraulics	3.0- 3.0	72611	LEC	1A	MWF	03:00 - 03:50 pm	BCH	00314	Schlegel,J
	Prerequisite: Graduate standing.									
5312	Nuclear Radiation Measurements and Spectroscopy	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	FUL	00227	Lee,H
	Prerequisite: Nuc Eng 3205.									
			Prerequisite							
	3.0- 3.0	71985	LAB	3A	T	02:00 - 04:45 pm	FUL	00214	Lee,H	
			Prerequisite							
	3.0- 3.0	71986	LAB	3B	W	02:00 - 04:45 pm	FUL	00214	Lee,H	
			Prerequisite							
	3.0- 3.0	71987	LAB	3C	Th	02:00 - 04:45 pm	FUL	00214	Lee,H	
			Prerequisite							
5347	Radiological Engineering	3.0- 3.0	72211	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00254	Usman,S
	Prerequisite: Nuc Eng 3205.									
			Prerequisite							
5438	Reactor Laboratory II	2.0- 2.0		LEC	1A	M	02:00 - 02:50 pm	FUL	00220	Castano,C
	Prerequisite: Nuc Eng 4428.									
			Prerequisite							
	2.0- 2.0	72446	LAB	3A	ARR	ARR	ARR		Castano,C	
			Prerequisite							
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	ARR		Lee,H
	0.0- 6.0	70782	IND	6C	ARR	ARR	ARR	ARR		Mueller,G
	0.0- 6.0	71732	IND	6D	ARR	ARR	ARR	ARR		Usman,S
6010	Seminar	0.0- 6.0	70784	RSD	2A	M	12:00 - 12:50 pm	FUL	00227	Usman,S
6040	Oral Examination	0.0- 0.0	70788	IND	6A	ARR	ARR	ARR		Lee,H
	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	70789	IND	6A	ARR	ARR	ARR		Lee,H
	Doctoral Students Only. Graduate Office permission required.									
6085	Internship	0.0-15.0	70787	IND	6A	ARR	ARR	ARR		Lee,H
	DE Students Only.									
6099	Research	0.0-15.0	71368	IND	6A	ARR	ARR	ARR		Alajo,A
	0.0-15.0	71069	IND	6B	ARR	ARR	ARR	ARR		Al Dahhan,M
	0.0-15.0	70785	IND	6C	ARR	ARR	ARR	ARR		Castano,C
	0.0-15.0	70786	IND	6D	ARR	ARR	ARR	ARR		Graham,J
	0.0-15.0	71592	IND	6E	ARR	ARR	ARR	ARR		Lee,H
	0.0-15.0	71613	IND	6F	ARR	ARR	ARR	ARR		Liu,X
	0.0-15.0	71666	IND	6G	ARR	ARR	ARR	ARR		Mueller,G
	0.0-15.0	71950	IND	6H	ARR	ARR	ARR	ARR		Schlegel,J
	0.0-15.0	72421	IND	6J	ARR	ARR	ARR	ARR		Usman,S
	0.0-15.0	73667	IND	6K	ARR	ARR	ARR	ARR		Wen,H

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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			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
	3.0-33.0	73641	LEC	1B	TTh	02:00 - 03:15 pm	MCNT	00245	Borrok,D
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
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
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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	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
	0.0-12.0	72416	IND	6G	ARR	ARR	ARR		Wei,M
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70797	IND	6A	ARR	ARR	ARR		Dunn Norman,S
6099 Research	0.0-12.0	73653	IND	6A	ARR	ARR	ARR		Bai,B
	0.0-12.0	73654	IND	6B	ARR	ARR	ARR		Dunn Norman,S
	0.0-12.0	73655	IND	6C	ARR	ARR	ARR		Eckert,A
	0.0-12.0	73656	IND	6D	ARR	ARR	ARR		Flori,R
	0.0-12.0	73657	IND	6E	ARR	ARR	ARR		Imqam,A
	0.0-12.0	73658	IND	6F	ARR	ARR	ARR		Wei,M
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
	3.0- 3.0	72528	LEC	1D	TTh	12:30 - 01:45 pm	H-SS	00204	Reed,R
	3.0- 3.0	71676	LEC	1E	TTh	09:30 - 10:45 am	H-SS	00204	Reed,R
	3.0- 3.0	72891	LEC	1F	TTh	02:00 - 03:15 pm	IDE	00105	Dittmer,J
1115 Introduction To Logic Prerequisite: Entrance requirements.	3.0- 3.0	70798	LEC	1A	ARR	ARR	ARR		Finke,D
	3.0- 3.0	71893	LEC	1B	TTh	02:00 - 03:15 pm	H-SS	00101	Finke,D
1130 Introduction to Ethics	3.0- 3.0	72234	LEC	1A	ARR	ARR			Gamez,P
	3.0- 3.0	73491	LEC	1A	TTh	09:30 - 10:45 am	BCH	00215	Bronner,S
3001 Special Topics Prerequisites: One of the following: History 1100, History 1200, History 1300, History 1310.	3.0- 3.0	73491	LEC	1A	TTh	09:30 - 10:45 am	BCH	00215	Bronner,S
3223 Bioethics Prerequisite: Sophomore standing or above.	3.0- 3.0	71258	LEC	1A	MWF	11:00 - 11:50 am	IDE	00202	Hamilton,P
3225 Engineering Ethics Prerequisite: Sophomore standing or above.	3.0- 3.0	73489	LEC	1A	TTh	11:00 - 12:15 pm	IDE	000G4A	Gamez,P
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
3254 Symbolic Logic in Argumentation Prerequisites: Comp Eng 2210, or Comp Sci 1200, or any 1000-level or higher Philosophy course. Philosophy 1115 is recommended.	3.0- 3.0	71990	LEC	1A	TTh	12:30 - 01:45 pm	H-SS	00101	Finke,D
4000 Special Problems	0.0- 6.0	72983	IND	6B	ARR	ARR	ARR		Finke,D

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4325 Epistemology: Knowledge and Justification Prerequisite: Any introductory (below 2000) level philosophy course.	3.0- 3.0	73490	LEC	1A	TTh	11:00 - 12:15 pm	FUL	00220	Finke,D

Physics

1135 Engineering Physics I Prerequisite: Math 1208 or 1214.	0.0- 0.0	70802	LEC	1AA	TTh	09:00 - 09:50 am	PHYS	00104	Vojta,A
									Students must enroll in a LEC, RSD, and a LAB. Students are scheduled for group exams from 5:00 to 6:00pm on Wednesdays: Feb. 20, Apr. 3, and Apr. 24. See 'Notes' for Evening Exams MOTR PHYS 200L: Advanced Physics I with Lab Prerequisite
	0.0- 0.0	70803	LEC	1BB	TTh	10:00 - 10:50 am	PHYS	00104	Vojta,A
									Students must enroll in a LEC, RSD, and a LAB. Students are scheduled for group exams from 5:00 to 6:00pm on Wednesdays: Feb. 20, Apr. 3, and Apr. 24 See 'Notes' for Evening Exams MOTR PHYS 200L: Advanced Physics I with Lab Prerequisite
	0.0- 0.0	70804	LEC	1CC	ARR	ARR	ARR		Vojta,A
									Students must enroll in a LEC, RSD, and a LAB. Students are scheduled for group exams from 5:00 to 6:00pm on Wednesdays: Feb. 20, Apr. 3, and Apr. 24 See 'Notes' for Evening Exams MOTR PHYS 200L: Advanced Physics I with Lab Prerequisite
	4.0- 4.0	70805	RSD	2A	WF	08:00 - 08:50 am	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams MOTR PHYS 200L: Advanced Physics I with Lab Prerequisite
	4.0- 4.0	70806	RSD	2B	WF	08:00 - 08:50 am	PHYS	00129	Vojta,A
									See 'Notes' for Evening Exams MOTR PHYS 200L: Advanced Physics I with Lab Prerequisite
	4.0- 4.0	70807	RSD	2C	WF	09:00 - 09:50 am	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams MOTR PHYS 200L: Advanced Physics I with Lab Prerequisite
	4.0- 4.0	70808	RSD	2D	WF	09:00 - 09:50 am	PHYS	00129	Vojta,A
									See 'Notes' for Evening Exams MOTR PHYS 200L: Advanced Physics I with Lab Prerequisite
	4.0- 4.0	71265	RSD	2E	WF	09:00 - 09:50 am	BCH	00216	Vojta,A
									See 'Notes' for Evening Exams MOTR PHYS 200L: Advanced Physics I with Lab Prerequisite
	4.0- 4.0	70809	RSD	2F	WF	10:00 - 10:50 am	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams MOTR PHYS 200L: Advanced Physics I with Lab Prerequisite
	4.0- 4.0	70810	RSD	2G	WF	10:00 - 10:50 am	PHYS	00129	
									See 'Notes' for Evening Exams MOTR PHYS 200L: Advanced Physics I with Lab Prerequisite
	4.0- 4.0	71266	RSD	2H	WF	10:00 - 10:50 am	BCH	00216	Vojta,A
									See 'Notes' for Evening Exams MOTR PHYS 200L: Advanced Physics I with Lab Prerequisite
	4.0- 4.0	70811	RSD	2J	WF	11:00 - 11:50 am	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams MOTR PHYS 200L: Advanced Physics I with Lab Prerequisite

4.0-4.0	70812	RSD	2K	WF	11:00 - 11:50 am	PHYS	00129	Vojta,A	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
		Prerequisite							
4.0-4.0	71267	RSD	2L	WF	11:00 - 11:50 am	EECH	00104	Vojta,A	
		See 'Notes' for Evening Exams							
		MOTR PHYS 200L: Advanced Physics I with Lab							
		Prerequisite							
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							
		Prerequisite							
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							
		Prerequisite							
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							
		Prerequisite							
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							
		Prerequisite							
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							
		Prerequisite							
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							
		Prerequisite							
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							
		Prerequisite							
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							
		Prerequisite							
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							
		Prerequisite							
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							
		Prerequisite							
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							
		Prerequisite							
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							
		Prerequisite							
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							
		Prerequisite							
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							
		Prerequisite							

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
								Prerequisite
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
								Prerequisite
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
								Prerequisite
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
								Prerequisite
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
								Prerequisite
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
								Prerequisite
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
								Prerequisite
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
								Prerequisite
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
								Prerequisite
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
								Prerequisite
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
								Prerequisite
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
								Prerequisite
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
								Prerequisite
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
								Prerequisite
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
								Prerequisite
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
								Prerequisite

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	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	
									Prerequisite	
	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	
									Prerequisite	
	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	
									Prerequisite	
	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	
									Prerequisite	
	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	
									Prerequisite	
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
										Prerequisite
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
										Prerequisite
		1.0- 1.0	72315	LAB	3B	W	06:00 - 07:50 pm	PHYS	00213	Story,J
										MOTR ASTR 100L: Astronomy with Lab
										Prerequisite
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
										Prerequisite
		1.0- 1.0	71706	LAB	3B	T	06:00 - 07:50 pm	PHYS	00214	Waddill,G
										Prerequisite
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	
				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.
										See 'Notes' for Evening Exams
										Prerequisite
		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
										Prerequisite
		0.0- 0.0	70832	LEC	1CC	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
										Prerequisite
		4.0- 4.0	70833	RSD	2A	TTh	08:00 - 08:50 am	PHYS	00130	Musser,J
										See 'Notes' for Evening Exams
										Prerequisite
		4.0- 4.0	70834	RSD	2B	TTh	09:00 - 09:50 am	PHYS	00130	Musser,J
										See 'Notes' for Evening Exams
										Prerequisite
		4.0- 4.0	70835	RSD	2C	TTh	09:00 - 09:50 am	PHYS	00129	Musser,J
										See 'Notes' for Evening Exams
										Prerequisite

4.0-4.0	70836	RSD	2D	TTh	09:00 - 09:50 am	IDE	00202	Musser,J	
		See 'Notes' for Evening Exams							
		Prerequisite							
4.0-4.0	70837	RSD	2E	TTh	10:00 - 10:50 am	PHYS	00129	Musser,J	
		See 'Notes' for Evening Exams							
		Prerequisite							
4.0-4.0	71013	RSD	2F	TTh	10:00 - 10:50 am	PHYS	00130	Musser,J	
		See 'Notes' for Evening Exams							
		Prerequisite							
4.0-4.0	70838	RSD	2G	TTh	11:00 - 11:50 am	PHYS	00129	Musser,J	
		See 'Notes' for Evening Exams							
		Prerequisite							
4.0-4.0	71129	RSD	2H	TTh	11:00 - 11:50 am	PHYS	00130	Musser,J	
		See 'Notes' for Evening Exams							
		Prerequisite							
4.0-4.0	71268	RSD	2J	TTh	12:00 - 12:50 pm	PHYS	00129	Musser,J	
		See 'Notes' for Evening Exams							
		Prerequisite							
4.0-4.0	71678	RSD	2K	TTh	12:00 - 12:50 pm	PHYS	00130	Musser,J	
		See 'Notes' for Evening Exams							
		Prerequisite							
4.0-4.0	72074	RSD	2L	TTh	01:00 - 01:50 pm	PHYS	00129	Musser,J	
		See 'Notes' for Evening Exams							
		Prerequisite							
4.0-4.0	72075	RSD	2M	TTh	01:00 - 01:50 pm	PHYS	00130	Musser,J	
		See 'Notes' for Evening Exams							
		Prerequisite							
4.0-4.0	72316	RSD	2N	TTh	10:00 - 10:50 am	IDE	00202	Musser,J	
		See 'Notes' for Evening Exams							
		Prerequisite							
0.0-0.0	70839	LAB	3L01	M	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
		Prerequisite							
0.0-0.0	70840	LAB	3L02	M	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
		Prerequisite							
0.0-0.0	70841	LAB	3L03	M	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
		Prerequisite							
0.0-0.0	70842	LAB	3L04	M	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
		Prerequisite							
0.0-0.0	70843	LAB	3L05	M	06:00 - 07:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
		Prerequisite							
0.0-0.0	70844	LAB	3L06	M	06:00 - 07:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
		Prerequisite							
0.0-0.0	70845	LAB	3L07	M	11:00 - 12:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
		Prerequisite							
0.0-0.0	70846	LAB	3L08	M	11:00 - 12:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
		Prerequisite							
0.0-0.0	70847	LAB	3L09	T	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
		Prerequisite							
0.0-0.0	70848	LAB	3L10	T	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
		Prerequisite							
0.0-0.0	70849	LAB	3L11	W	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
		Prerequisite							
0.0-0.0	70850	LAB	3L12	W	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
		See 'Notes' for Evening Exams							
		Prerequisite							

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	0.0- 0.0	70851	LAB	3L13	W	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
									Prerequisite	
	0.0- 0.0	71130	LAB	3L15		CANCELLED				
	0.0- 0.0	71182	LAB	3L17	W	11:00 - 12:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
									Prerequisite	
	0.0- 0.0	71482	LAB	3L14	W	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
									Prerequisite	
	0.0- 0.0	71483	LAB	3L16	W	06:00 - 07:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
									Prerequisite	
	0.0- 0.0	71679	LAB	3L18	W	11:00 - 12:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
									Prerequisite	
	0.0- 0.0	72076	LAB	3L19	Th	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
									Prerequisite	
	0.0- 0.0	72077	LAB	3L20	Th	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
									Prerequisite	
	0.0- 0.0	72078	LAB	3L21	Th	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
									Prerequisite	
	0.0- 0.0	72317	LAB	3L22	Th	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
									Prerequisite	
2145	College Physics II	3.0- 3.0	71180	LEC	1A	MWF	08:00 - 08:50 am	PHYS	00104	Vojta,A
	Prerequisites: Math 1160, Physics 1145.									
2305	Introduction To Modern Physics	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	Modern Physics I	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	Introduction To Theoretical Physics	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	Special Problems	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	Advanced Physics Laboratory I	3.0- 3.0	71014	LAB	3A	TTh	12:30 - 03:15 pm	PHYS	00219	Fischer,D
	Prerequisite: Physics 2129									
3129	Advanced Physics Laboratory II	3.0- 3.0	70859	LAB	3A	TTh	12:30 - 03:15 pm	PHYS	00219	Fischer,D
	Prerequisite: Physics 2129.									
3211	Electricity And Magnetism I	3.0- 3.0	70856	LEC	1A	MWF	10:00 - 10:50 am	PHYS	00127	Peacher,J
	Prerequisite: Physics 2401.									
4099	Undergraduate Research	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	Thermal Physics	3.0- 3.0	71870	LEC	1A	TTh	11:00 - 12:15 pm	PHYS	00127	Wilemski,G
	Prerequisite: Physics 2305 or 2311.									
										Prerequisite

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4323 Elementary Solid State Physics Prerequisites: Math 3304 and Physics 2305 or 2311.	3.0- 3.0	72937	LEC	1A	MWF	02:00 - 02:50 pm	PHYS	00127	Waddill,G
									Prerequisite
4513 Laser Physics Prerequisite: Physics 2305 or 2311.	3.0- 3.0	70860	LEC	1A	MWF	11:00 - 11:50 am	PHYS	00127	Story,J
									Prerequisite
5301 Quantum Mechanics I Prerequisite: Physics 4301 or equivalent.	3.0- 3.0	70872	LEC	1A	ARR	ARR	ARR		Parris,P
									Prerequisite
									UM Shared Course-Primary
5603 Advanced Physics Laboratory Teaching Methods Prerequisite: Graduate standing.	3.0- 3.0	71733	LEC	1A	ARR	ARR	ARR		Waddill,G
									Prerequisite
6000 Special Problems	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 Coop Registration	0.0- 1.0	70889	IND	6A	ARR	ARR	ARR		Peacher,J
6010 Seminar	0.0- 6.0	70870	RSD	2A	Th	03:30 - 05:20 pm	PHYS	00104	Le,T
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
	0.0-15.0	73631	IND	6T	ARR	ARR	ARR		Cavaglia,M
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
									All-digital class materials at significant savings
									MOTR POSC 101: American Government
	3.0- 3.0	72432	LEC	1B	TTh	09:30 - 10:45 am	TMH	00256	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
									All-digital class materials at significant savings
									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
									Prerequisite

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
									Prerequisite

Psychology

1101	General Psychology	3.0- 3.0	70893	LEC 1A	TTh	11:00 - 12:15 pm	EMGT	00103	Baker,D
				All-digital class materials at significant savings					
				MOTR PSYC 100: General Psychology					
		3.0- 3.0	72440	LEC 1C	T	06:00 - 08:45 pm	H-SS	000G5	Stratman,T
				All-digital class materials at significant savings					
				MOTR PSYC 100: General Psychology					
		3.0- 3.0	73627	LEC 1D	M	04:00 - 06:30 pm	PHYS	00104	Krueger,M
				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
				Prerequisite					
3310	Developmental Psychology Prerequisite: Psych 1101.	3.0- 3.0	73199	LEC 1A	MWF	10:00 - 10:50 am	EECH	00101	Krueger,M
				All-digital class materials at significant savings					
				Prerequisite					
3311	Psychological & Educational Development Of The Adolescent	3.0- 3.0	71322	LEC 1B	MWF	01:00 - 01:50 pm	TMH	00256	Krueger,M
				All-digital class materials at significant savings					
				Prerequisite					
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
				Prerequisite					
4590	Health Psychology Prerequisite: Psych 1101.	3.0- 3.0	72514	LEC 1A	TTh	12:30 - 01:45 pm	H-SS	000G7	Henslee,A
				Prerequisite					
4600	Social Psychology Prerequisite: Psych 1101.	3.0- 3.0	71485	LEC 1A	TTh	11:00 - 12:15 pm	EMGT	00102	Cundiff,J
				Prerequisite					
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
				Prerequisite					
4720	Human-Computer Interaction Prerequisite: Psych 1101.	3.0- 3.0	73200	LEC 1A	MWF	09:00 - 09:50 am	CS	00204	Shank,D
				Prerequisite					
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
				Prerequisite					
		0.0- 6.0	72518	IND 6B	ARR	ARR	ARR		Murray,S
				Prerequisite					
4992	Cross-Cultural Psychology Prerequisite: Psych 1101.	3.0- 3.0	72513	LEC 1A	MWF	11:00 - 11:50 am	BCH	00121	Krueger,M
				All-digital class materials at significant savings					
				Low Cost/No Cost Affordable Educational Resources					
				Prerequisite					
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
				All-digital class materials at significant savings					
				Low Cost/No Cost Affordable Educational Resources					
				Prerequisite					

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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	Murray,S
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
									All-digital class materials at significant savings Low Cost/No Cost Affordable Educational Resources
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
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
									Prerequisite
			LEC	1A	ARR	ARR	ARR		Prerequisite
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
									Prerequisite
			LEC	1A	ARR	ARR	ARR		Prerequisite
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
									Prerequisite

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
									Prerequisite
			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	EECH	00112	Barbosa,M
									Prerequisite
			LEC	1A	ARR	ARR	ARR		Prerequisite
2001 Special Topics Prerequisites: Spanish 1180.	3.0- 3.0	73487	LEC	1A	TTh	12:30 - 01:45 pm	SHNK	00305	Porcel,J
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
									Prerequisite

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

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	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							
	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	IND	6A	ARR	ARR	ARR		Haynes,W	
2181	Communication Theory	3.0- 3.0	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00203	Deterding,A	
			Communication Emphasized							
3000	Special Problems	0.0- 6.0	IND	6A	ARR	ARR	ARR		Haynes,W	
3221	Fundamentals in Photography	3.0- 3.0	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
			Prerequisite							
			CANCELLED							
3235	Intercultural Communication	3.0- 3.0	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	00104	Robertson,T	
	Prerequisite: Sp&M S 2181.									
			Communication Emphasized							
			Prerequisite							
3245	Voice, Diction and Interpretation	3.0- 3.0	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	LEC	1A	CANCELLED					
	Prerequisite: Sp&M S 2181.									
4000	Special Problems	0.0- 6.0	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
			All-digital class materials at significant savings							
			MOTR MATH 110: Statistical Reasoning							

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
3111 Statistical Tools For Decision Making Prerequisite: Math 1208 or 1212 or 1214 with a grade of "C" or better.	3.0- 3.0		LEC	1A	TTh	02:00 - 02:50 pm	CS	00205	Koob,K	
			All-digital class materials at significant savings							
			Prerequisite							
	3.0- 3.0	71037	LAB	3A	W	02:00 - 03:50 pm	CS	00206	Koob,K	
			Prerequisite							
3113 Applied Engineering Statistics Prerequisite: Math 1215 or 1221 with a grade of "C" or better.	3.0- 3.0	70908	LEC	1A	MWF	10:00 - 10:50 am	CH	00104	Yatawara,K	
			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.							
			All-digital class materials at significant savings							
			Prerequisite							
	3.0- 3.0	70909	LEC	1B	MWF	11:00 - 11:50 am	CH	00104	Yatawara,K	
			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.							
			All-digital class materials at significant savings							
			Prerequisite							
	3.0- 3.0	71193	LEC	1C	TTh	09:30 - 10:45 am	MCNT	00212	Wang,L	
			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.							
			Prerequisite							
	3.0- 3.0	71194	LEC	1D	TTh	11:00 - 12:15 pm	MCNT	00211	Wang,L	
			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.							
			Prerequisite							
	3.0- 3.0	72633	LEC	1E	MWF	01:00 - 01:50 pm	CS	00202	Alhassan,D	
			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.							
			Prerequisite							
	3.0- 3.0	72878	LEC	1F	MWF	02:00 - 02:50 pm	TMH	00256	Alhassan,D	
			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.							
			Prerequisite							
3115 Engineering Statistics Prerequisite: Math 1215 or 1221 with a grade of "C" or better.	3.0- 3.0	70911	LEC	1A	MWF	08:00 - 08:50 am	BCH	00314	Su,Y	
			Prerequisite							
	3.0- 3.0	70910	LEC	1B	MWF	09:00 - 09:50 am	BCH	00314	Su,Y	
			Prerequisite							
	3.0- 3.0	71195	LEC	1C	TTh	06:00 - 07:15 pm	CH	00104	Hammuda,M	
		Prerequisite								
	3.0- 3.0	71915	LEC	1D	TTh	03:30 - 04:45 pm	CS	00205	Hammuda,M	
		Prerequisite								
	3.0- 3.0	73080	LEC	1E	TTh	11:00 - 12:15 pm	CSF	00G5D	Paige,R	
		Prerequisite								
3117 Introduction To Probability And Statistics Prerequisite: Math 2222 with a grade of "C" or better.	3.0- 3.0	70912	LEC	1A	TTh	11:00 - 12:15 pm	CSF	00G5E	Ong,V	
			Prerequisite							
	3.0- 3.0	72879	LEC	1B	CANCELLED					
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	
			Prerequisite							
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	
			Prerequisite							
5643 Probability And Statistics Prerequisite: Math 2222.	3.0- 3.0	70914	LEC	1A	TTh	09:30 - 10:45 am	LIB	000G14	Wen,X	
			Prerequisite							
5644 Mathematical Statistics Prerequisite: Stat 5643.	3.0- 3.0	71033	LEC	1A	MWF	10:00 - 10:50 am	ROLLA	000G4	Adekpedjou,A	
			Communication Emphasized							
			Prerequisite							

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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	CANCELLED				
	3.0- 3.0	73530	LEC	1B	TTh	02:00 - 03:15 pm	ROLLA	000G4	Paige,R
					Statistical Learning				
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
					Prerequisite				
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
	1.0-15.0	73628	IND	6J	ARR	ARR	ARR		Sun,Z
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
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
					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
Prerequisite										
		3.0- 3.0	71857	LAB	3A	CANCELLED				
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