

2017 SPRING SEMESTER MAIN MISSOURI S&T CAMPUS CLASS OFFERINGS

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
Aerosp Studies-Air Force ROTC									
1120 Foundations Of The U.S. Air Force II	1.0- 1.0		LEC	1A	W	10:00 - 10:50 am	HARR	00208	Bragg,W
	1.0- 1.0		LEC	1B	W	02:00 - 02:50 pm	HARR	00208	Bragg,W
	1.0- 1.0	70038	LAB	3A	Th	03:00 - 05:00 pm	BCH	00120	Bragg,W
	1.0- 1.0	70040	LAB	3B	Th	03:30 - 05:30 pm	H-SS	000G5	Bragg,W
2120 The Evolution Of USAF Air And Space Power II	1.0- 1.0		LEC	1A	W	11:00 - 11:50 am	HARR	00208	Ice,K
	1.0- 1.0		LEC	1B	W	03:00 - 03:50 pm	HARR	00208	Ice,K
	1.0- 1.0	70042	LAB	3A	Th	03:00 - 05:00 pm	BCH	00120	Bragg,W
	1.0- 1.0	71582	LAB	3B	Th	03:00 - 05:00 pm	BCH	00120	Bragg,W
3120 Air Force Leadership Studies II	3.0- 3.0		LEC	1A	T	03:00 - 05:30 pm	HARR	00208	Ice,K
	3.0- 3.0	70044	LAB	3A	Th	03:00 - 05:00 pm	BCH	00120	Bragg,W
4120 National Security Affairs/Preparation For Active Duty II	3.0- 3.0		LEC	1A	T	05:30 - 08:00 pm	HARR	00302	Logsdon,C
	3.0- 3.0	70046	LAB	3A	Th	03:00 - 05:00 pm	BCH	00120	Bragg,W
Aerospace Engineering									
2001 Special Topics	2.0- 2.0		LEC	1A	M	12:00 - 12:50 pm	EMGT	00103	Schmidt,J
			Intro to Spacecraft Design Prerequisite: Aero Eng 2861.						
	2.0- 2.0	73222	LAB	3A	ARR	ARR	ARR		Schmidt,J
			Intro to Spacecraft Design						
2360 Dynamics	3.0- 3.0	71077	LEC	1A	MWF	09:00 - 09:50 am	TMH	00254	Macsthigh,G
Prerequisite: Grade of "C" or better in each of Civ Eng 2200, Math 2222. (Co-listed with Mech Eng 2360)	3.0- 3.0	71078	LEC	1B	TTh	12:30 - 01:45 pm	BERTELS	00B10	Kumar,N
	3.0- 3.0	72523	LEC	1C	TTh	02:00 - 03:15 pm	BCH	00315	Hutcheson,R
2780 Introduction to Aerospace Design	2.0- 2.0		LEC	1A	Th	08:00 - 08:50 am	TMH	00199	Meeks,W
Prerequisite: A grade of "C" or better in Aero Eng 2861.	2.0- 2.0	70001	LAB	3A	M	01:00 - 03:00 pm	ARR		Meeks,W
	2.0- 2.0	70002	LAB	3B	M	03:00 - 05:00 pm	ARR		Meeks,W
	2.0- 2.0	73223	LAB	3C	M	05:00 - 07:00 pm	ARR		Meeks,W
	2.0- 2.0	73224	LAB	3D	T	01:00 - 03:00 pm	ARR		Meeks,W
	2.0- 2.0	73225	LAB	3E	T	03:00 - 05:00 pm	ARR		Meeks,W
	2.0- 2.0	73226	LAB	3F	W	01:00 - 03:00 pm	ARR		Meeks,W
	2.0- 2.0	73227	LAB	3G	W	03:00 - 05:00 pm	ARR		Meeks,W
2861 Aerospace Vehicle Performance	3.0- 3.0	71417	LEC	1A	MWF	08:00 - 08:50 am	MCNT	00204	Riggins,D
Prerequisite: "C" or better grade in both Math 1215 and Physics 1135.									
3002 Cooperative Engineering Training	0.0- 6.0	70003	IND	6A	ARR	ARR	ARR		Isaac,K
3171 Aerodynamics II	3.0- 3.0	70006	LEC	1A	TTh	02:00 - 03:15 pm	BERTELS	00112A	Hosder,S
Prerequisite: "C" or better in Aero Eng 3131 and Mech Eng 2519.			LEC	1A	TTh	02:00 - 03:15 pm	BERTELS	00112B	
3251 Aerospace Structures I	3.0- 3.0	70004	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00204	Wojnar,C
Prerequisites: "C" or better in Math 1214 (or 1208), 1215 (or 1221), 2222, Physics 1135 and Civ Eng 2210.									
3361 Flight Dynamics and Control	3.0- 3.0	70005	LEC	1A	TTh	09:30 - 10:45 am	TMH	00295	DeMars,K
Prerequisites: Aero Eng 3613, Aero Eng 3131, and accompanied or preceded by Aero Eng 2780.									
4000 Special Problems	0.0- 6.0	70010	IND	6A	ARR	ARR	ARR		Pernicka,H
	0.0- 6.0	70011	IND	6B	ARR	ARR	ARR		Riggins,D
	0.0- 6.0	70012	IND	6C	ARR	ARR	ARR		
	0.0- 6.0	72576	IND	6D	ARR	ARR	ARR		Dharani,L
4099 Undergraduate Research	0.0- 6.0	70016	IND	6A	ARR	ARR	ARR		Balakrishnan,S
	0.0- 6.0	70017	IND	6B	ARR	ARR	ARR		Carroll,D
	0.0- 6.0	70018	IND	6C	ARR	ARR	ARR		DeMars,K
	0.0- 6.0	71410	IND	6D	ARR	ARR	ARR		Dharani,L
	0.0- 6.0	70019	IND	6E	ARR	ARR	ARR		Eversman,W
	0.0- 6.0	70020	IND	6F	ARR	ARR	ARR		Hosder,S
	0.0- 6.0	70021	IND	6G	ARR	ARR	ARR		Isaac,K
	0.0- 6.0	70022	IND	6H	ARR	ARR	ARR		Pernicka,H

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	0.0- 6.0	71492	IND	6J	ARR	ARR	ARR		Riggins,D
	0.0- 6.0	71493	IND	6K	ARR	ARR	ARR		Rovey,J
	0.0- 6.0	72074	IND	6L	ARR	ARR	ARR		
4781 Aerospace Systems Design II Prerequisite: Aero Eng 4780.	3.0- 3.0	70007	LAB	3A	MWF	03:00 - 04:50 pm	TMH	00295	Meeks,W
4791 Spacecraft Design II Prerequisites: Aero Eng 4790 for Aero Eng majors; consent of instructor for non-Aero Eng majors.	3.0- 3.0	70015	LAB	3A	TTh	03:30 - 04:45 pm	TMH	00315	Pernicka,H
4882 Experimental Methods in Aerospace Engineering I Prerequisites: Aero Eng 3131 and Elec Eng 2800.	2.0- 2.0	70008	LAB	3A	T	08:00 - 08:50 am	TMH	00254	
			LAB	3A	M	10:30 - 12:00 pm	ARR		Sadeghizadeh,Z
	2.0- 2.0	70009	LAB	3B	T	08:00 - 08:50 am	TMH	00254	
			LAB	3B	M	01:00 - 02:30 pm	ARR		Sadeghizadeh,Z
	2.0- 2.0	71464	LAB	3C	T	08:00 - 08:50 am	TMH	00254	
			LAB	3C	M	02:30 - 04:00 pm	ARR		Sadeghizadeh,Z
	2.0- 2.0	71465	LAB	3D	T	08:00 - 08:50 am	TMH	00254	
			LAB	3D	T	03:30 - 05:00 pm	ARR		Sadeghizadeh,Z
	2.0- 2.0	72275	LAB	3E	T	08:00 - 08:50 am	TMH	00254	
			LAB	3E	W	10:30 - 12:00 pm	ARR		Sadeghizadeh,Z
	2.0- 2.0	72276	LAB	3F	T	08:00 - 08:50 am	TMH	00254	
			LAB	3F	W	01:00 - 02:30 pm	ARR		Sadeghizadeh,Z
	2.0- 2.0	72277	LAB	3G	T	08:00 - 08:50 am	TMH	00254	
			LAB	3G	W	02:30 - 04:00 pm	ARR		Sadeghizadeh,Z
	2.0- 2.0	72278	LAB	3H	T	08:00 - 08:50 am	TMH	00254	
			LAB	3H	Th	03:30 - 05:00 pm	ARR		Sadeghizadeh,Z
4885 Assessment Prerequisites: Aero Eng 3171, Aero Eng 3361, Aero Eng 4535, Aero Eng 4253.	1.0- 1.0	72773	LEC	1A	W	02:00 - 02:50 pm	BCH	00120	Isaac,K
5000 Special Problems	0.0- 6.0	71549	IND	6A	ARR	ARR	ARR		Isaac,K
5001 Special Topics	3.0- 3.0	73229	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00249	Wang,C
						Intro to Microfluidics			
						Prerequisites: Math 2222, Phys 2135 or equivalent, and one from the following list: Mech Eng 3131, Aero Eng 3131, Chem Eng 3100, Chem 3410, Elec Eng 3600, Civ Eng 3330, Cer Eng 3410. (Co-listed with Mech Eng 5001)			
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 Mech Eng 5234)	3.0- 3.0	73232	LEC	1A	T	04:00 - 06:30 pm	HARR	00107	Birman,V
5236 Fracture Mechanics Prerequisite: Civ Eng 2210. (Co-listed with Mech Eng 5236)	3.0- 3.0	70014	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00213	Dharani,L
5282 Introduction to Composite Materials & Structures Prerequisite: Civ Eng 2210. (Co-listed with Mech Eng 5282)	3.0- 3.0	71060	LEC	1A	TTh	09:30 - 10:45 am	BCH	00213	Chandrashekhara,K
5478 Mechatronics Prerequisite: Mech Eng 4479 or equivalent. (Co-listed with Mech Eng 5478, Elec Eng 5870 and Comp Eng 5820)	3.0- 3.0		LEC	1A	MW	08:00 - 08:50 am	TMH	00250	Krishnamurthy,K
	3.0- 3.0	73475	LAB	3A	F	08:00 - 08:50 am	TMH	00250	Krishnamurthy,K
5519 Advanced Thermodynamics Prerequisite: Mech Eng 2519. (Co-listed with Mech Eng 5519)	3.0- 3.0	73481	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00254	Pan,H
5535 Aerospace Propulsion Systems Prerequisite: Aero Eng 4535.	3.0- 3.0	70013	LEC	1A	MWF	09:00 - 09:50 am	TMH	00249	Riggins,D
5760 Probabilistic Engineering Design Prerequisite: Mech Eng 3708 or Aero Eng 3361. (Co-listed with Mech Eng 5760)	3.0- 3.0	71371	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00249	Du,X
5830 Applied Computational Methods Prerequisite: Comp Sci 1570 or 1970 or 1981; Math 3304. (Co-listed with Mech Eng 5830)	3.0- 3.0	71837	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00213	Hosder,S

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6001 Special Topics	3.0- 3.0	73483	LEC	1A	MWF	08:00 - 08:50 am	TMH	00260	Bristow,D
									Iter & Rep Proc Control Prerequisites: Mech Eng 5481 or Elec Eng 6300. (Co-listed with Mech Eng 6001)
6040 Oral Examination	0.0- 0.0	70036	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	71765	IND	6C	ARR	ARR	ARR		Chandrashekhara,K
	0.0-15.0	70026	IND	6D	ARR	ARR	ARR		DeMars,K
	0.0-15.0	70027	IND	6E	ARR	ARR	ARR		Dharani,L
	0.0-15.0	70028	IND	6F	ARR	ARR	ARR		Duan,L
	0.0-15.0	70029	IND	6G	ARR	ARR	ARR		Eversman,W
	0.0-15.0	70030	IND	6H	ARR	ARR	ARR		Hosder,S
	0.0-15.0	70031	IND	6J	ARR	ARR	ARR		Isaac,K
	0.0-15.0	70032	IND	6K	ARR	ARR	ARR		Krishnamurthy,K
	0.0-15.0	70033	IND	6L	ARR	ARR	ARR		Pernicka,H
	0.0-15.0	70034	IND	6M	ARR	ARR	ARR		Riggins,D
	0.0-15.0	70035	IND	6N	ARR	ARR	ARR		Rovey,J
6123 Viscous Fluid Flow	3.0- 3.0	71993	LEC	1A	MWF	11:00 - 11:50 am	CS	00209	Isaac,K
									Prerequisite: Mech Eng 5131 or Aero Eng 5131 or Mech Eng 5139 or Aero Eng 5139 or equivalent. (Co-listed with Mech Eng 6123)
6137 Physical Gas Dynamics I	3.0- 3.0	73485	LEC	1A	TTh	09:30 - 10:45 am	CS	00209	Rovey,J
									Prerequisite: Mech Eng 5131 or Aero Eng 5131. (Co-listed with Mech Eng 6137)
6212 Advanced Finite Element Analysis	3.0- 3.0	70023	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00260	Chandrashekhara,K
									Prerequisite: Mech Eng 5212 or Aero Eng 5212. (Co-listed with Mech Eng 6212)
6222 Theory of Elasticity	3.0- 3.0	72625	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00213	Dharani,L
									Prerequisites: Civ Eng 2210. (Co-listed with Mech Eng 6222)
6307 Advanced Vibrations	3.0- 3.0	72075	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00249	Stutts,D
									Prerequisite: Mech Eng or Aero Eng 5307. (Co-listed with Mech Eng 6307)
6458 Adaptive Dynamic Programming	3.0- 3.0	73280	LEC	1A	T	07:00 - 09:30 pm	EECH	00239	Wunsch,D
									Prerequisites: Elec Eng 5370 or Comp Eng 5310. (Co-listed with Comp Eng 6320, Elec Eng 6360, Mech Eng 6458 and Sys Eng 6215)
6527 Heat Transfer by Convection	3.0- 3.0	71943	LEC	1A	MWF	09:00 - 09:50 am	LIB	000G14	Homan,K
									Prerequisite: Mech Eng 5525 or Aero Eng 5525. (Co-listed with Mech Eng 6527)
6614 Advanced Astrodynamics	3.0- 3.0	73228	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00256	Pernicka,H
									Prerequisite: Aero Eng 5614.

Architectural Engineering

2003 Engineering Communications and Computations	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	BCH	00120	Schonberg,W
									Class will meet 2 lecture periods per week when labs do not meet.
									See 'Notes'-Additional Meeting
	3.0- 3.0	70058	LAB	3A	Th	01:00 - 02:50 pm	BCH	00115	Schonberg,W
	3.0- 3.0	71188	LAB	3B	Th	03:00 - 04:50 pm	BCH	00115	Schonberg,W
2103 Architectural Materials And Methods Of Construction	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	BCH	00318	Yildirim,S
	3.0- 3.0	71574	LAB	3A	T	06:00 - 08:00 pm	ARR		Yildirim,S
	3.0- 3.0	71957	LAB	3B	W	06:00 - 08:00 pm	ARR		Yildirim,S
	3.0- 3.0	71575	LAB	3C	Th	06:00 - 08:00 pm	ARR		Yildirim,S
3201 Structural Analysis I	3.0- 3.0		LEC	1A	TTh	09:30 - 10:20 am	BCH	00318	Wu,C
	3.0- 3.0	70049	LAB	3A	Th	12:30 - 03:15 pm	BCH	00318	Wu,C

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3210 Structural Design in Metals Prerequisite: Arch Eng 3201 with grade of "C" or better. (Co-listed with Civ Eng 3210)	3.0- 3.0		LEC	1A	TTh	09:30 - 10:20 am	BCH	00124	Philpot,T
	3.0- 3.0	70051	LAB	3A	TTh	11:00 - 12:15 pm	BCH	00124	Philpot,T
3220 Reinforced Concrete Design Prerequisite: Arch Eng 3201 with grade of "C" or better. (Co-listed with Civ Eng 3220)	3.0- 3.0		LEC	1A	MW	10:00 - 10:50 am	BCH	00318	Sneed,L
	3.0- 3.0	70053	LAB	3A	Th	01:00 - 03:50 pm	BCH	00314	Sneed,L
3805 Building Lighting Systems Prerequisites: Arch Eng 3803 and Arch Eng 3804.	3.0- 3.0	70047	LEC	1A	MWF	09:00 - 09:50 am	BCH	00121	Baur,S
4097 Senior Design Project Prerequisite: Arch Eng 4448 or Civ Eng 4448. (Co-listed with Civ Eng 4097 and Env Eng 4097)	3.0- 3.0	71069	LEC	1A	M	01:00 - 03:50 pm	BCH	00120	Showalter,W
4099 Undergraduate Research	0.0- 6.0	70056	IND	6A	ARR	ARR	ARR		Baur,S
	0.0- 6.0	71378	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	70054	LEC	1A	TTh	08:00 - 09:15 am	BCH	00120	Showalter,W
5000 Special Problems	0.0- 6.0	71110	IND	6A	ARR	ARR	ARR		Baur,S
	0.0- 6.0	71377	IND	6B	ARR	ARR	ARR		Myers,J
5231 Infrastructure Strengthening with Composites Prerequisites: Arch Eng / Civ Eng 3201, Arch Eng / Civ Eng 3220. (Co-listed with Civ Eng 5231)	3.0- 3.0	73192	LEC	1A	TTh	08:00 - 09:15 am	BCH	00213	Myers,J
5270 Structural Masonry Design Prerequisites: Arch Eng 3201 or Civ Eng 3201. (Co-listed with Civ Eng 5270)	3.0- 3.0	73193	LEC	1A	Th	04:00 - 06:30 pm	BERTELS	00B12A	Mcmillian,D
5442 Construction Planning and Scheduling Strategies Prerequisite: Civ Eng or Arch Eng 4448. (Co-listed with Civ Eng 5442)	3.0- 3.0	71517	LEC	1A	M	04:00 - 06:30 pm	BCH	00121	Bodapati,S
5445 Construction Methods Prerequisite: Arch Eng 4448 with a grade of "C" or better. (Co-listed with Civ Eng 5445)	3.0- 3.0	71357	LEC	1A	W	04:00 - 06:30 pm	CS	00209	Augenstein,A
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	71712	LEC	1A	MWF	09:00 - 09:50 am	TMH	00260	Scott-Showalter,P
5449 Engineering and Construction Contract Specifications Prerequisite: Arch Eng 4448 with a grade of "C" or better. (Co-listed with Civ Eng 5449)	3.0- 3.0	72104	LEC	1A	MWF	11:00 - 11:50 am	BCH	00213	Scott-Showalter,P
5729 Foundation Engineering II Prerequisite: Arch Eng 3220 with a grade of "C" or better.(Co-listed with Civ Eng 5729)	3.0- 3.0	70055	LEC	1A	CANCELLED				
5872 Environmental Controls Prerequisites: Mech Eng 3521 and accompanied or preceded by Mech Eng 3525; or Mech Eng 2527 and Civ Eng 3330. (Co-listed with Mech Eng 5571)	3.0- 3.0	73431	LEC	1A	MWF	11:00 - 11:50 am	BCH	00101	Gillis,W
6001 Special Topics	3.0- 3.0	73441	LEC	1A	T	04:00 - 06:30 pm	ARR		Khayat,K
									Concrete Durability and Repair Prerequisites: Civ Eng 5113 or equivalent; or consent of the instructor with Graduate standing. (Co-listed with Civ Eng 6001)

Art

1120 Drawing I	3.0- 3.0	70060	LEC	1A	W	02:00 - 04:45 pm	CH	00213	Myers,L
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1140 Painting I	3.0- 3.0	73074	LEC	1B	M	04:00 - 06:45 pm	CH	00213	Shoemaker,C
1164 Sculpture	3.0- 3.0	70062	LEC	1A	W	05:00 - 07:45 pm	CH	00213	Shoemaker,C
1180 Art Appreciation	3.0- 3.0	72410	LEC	1A	TTh	02:30 - 03:45 pm	CH	00213	Myers,L
	3.0- 3.0	70064	LEC	1A	M	06:00 - 08:45 pm	CASTL	00138	Soisson,L
	3.0- 3.0	70066	LEC	1B	T	06:00 - 08:45 pm	CASTL	00138	Soisson,L
	3.0- 3.0	71214	LEC	1C	Th	06:00 - 08:45 pm	CASTL	00138	Soisson,L
	3.0- 3.0	71215	LEC	1D	TTh	03:30 - 04:45 pm	CASTL	00138	Soisson,L
	3.0- 3.0	71302	LEC	1F	TTh	05:00 - 06:15 pm	CH	00213	Myers,L
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	70067	LAB	3A	T	07:00 - 10:10 pm	CASTL	LEACH	Tohline,A
	3.0- 3.0	71972	LAB	3B	T	07:00 - 10:10 pm	CASTL	LEACH	Tohline,A
			Communication Emphasized						
2130 Advanced Drawing Prerequisite: Art 1120.	3.0- 3.0	70061	LEC	1A	TTh	12:00 - 01:15 pm	CH	00213	
2150 Advanced Painting Prerequisite: Art 1140.	3.0- 3.0	70063	LEC	1A	TTh	12:00 - 01:15 pm	CH	00213	Myers,L
3001 Special Topics	3.0- 3.0	73588	LEC	1A	W	06:00 - 09:00 pm	H-SS	000G9	Tohline,A
			Great Directors Prerequisite: Art 1185.						
	3.0- 3.0		LEC	1B	TTh	12:00 - 01:15 pm	CH	00213	Myers,L
			Advanced Sculpture Prerequisite: Art 1164.						
	3.0- 3.0	73590	LAB	3B	ARR	ARR	ARR		Myers,L
			Advanced Sculpture						
3203 Architectural Design I Prerequisite: Sophomore standing.	3.0- 3.0		LEC	1A	T	02:00 - 02:50 pm	BCH	00120	Baur,S
	3.0- 3.0	71997	LAB	3A	MW	03:00 - 05:50 pm	BCH	0320	Baur,S
	3.0- 3.0	71998	LAB	3B	TTh	03:00 - 05:50 pm	BCH	0320	Pickerill,H
3221 Fundamentals in Photography Prerequisite: Art 1180 or Art 1185 (required for Art minor credit) or Sp&M S 1185 or Sp&M S 2181 (required for Speech minor credit). (Co-listed with Sp&M S 3221)	3.0- 3.0	71505	LEC	1A	W	06:00 - 09:00 pm	CSF	00114	Rupert,B
	3.0- 3.0	72252	LEC	1B	Th	06:00 - 09:00 pm	CSF	00114	Rupert,B
3260 Exploring Digital Art	3.0- 3.0		LEC	1A	W	04:00 - 05:30 pm	CS	00206	Myers,L
	3.0- 3.0	72602	LAB	3A	W	05:30 - 06:45 pm	CS	00206	Myers,L
3275 Foundations of Media Communication Prerequisite: Sp&M S 1185. (Co-listed with Sp&M S 3275)	3.0- 3.0	73001	LEC	1A	CANCELLED				
4000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	70068	IND	6A	ARR	ARR	ARR		Myers,L

Arts, Languages & Philosophy

4397 Multidisciplinary Studies Capstone Prerequisite: Senior status.	3.0- 3.0	72181	LEC	1A	ARR	ARR	ARR		Haynes,W
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Biological Sciences

1113 General Biology Prerequisite: Entrance requirements.	3.0- 3.0	70094	LEC	1A	MWF	09:00 - 09:50 am	SHNK	00126	Martin,A
	3.0- 3.0	71973	LEC	1B	ARR	ARR	ARR		Martin,A
1163 Biotechnology in Film	3.0- 3.0	71513	LEC	1A	W	06:00 - 08:30 pm	BCH	00120	Martin,A
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	
	2.0- 2.0		LEC	1B	M	06:00 - 06:50 pm	SHNK	00111	
	2.0- 2.0		LEC	1C	F	02:00 - 02:50 pm	SHNK	00111	
	2.0- 2.0	70096	LAB	3A	M	03:00 - 04:50 pm	SHNK	00111	
	2.0- 2.0	71897	LAB	3B	M	07:00 - 08:50 pm	SHNK	00111	
	2.0- 2.0	72274	LAB	3C	F	03:00 - 04:50 pm	SHNK	00111	
1223 Biodiversity	3.0- 3.0	72245	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00206	Wilson,T
1229 Biodiversity Lab Prerequisite: Preceded or accompanied by Biodiversity (Bio Sci 1223)	1.0- 1.0	71373	LAB	3A	T	02:00 - 04:50 pm	SHNK	00111	Wilson,T
	1.0- 1.0	71374	LAB	3B	T	06:00 - 08:50 pm	SHNK	00111	Wilson,T
	1.0- 1.0	71509	LAB	3C	W	02:00 - 04:50 pm	SHNK	00111	Wilson,T
2213 Cell Biology Prerequisites: Preceded or accompanied by CHEM 1320.	3.0- 3.0	71239	LEC	1A	MWF	11:00 - 11:50 am	CS	00207	Shannon,K
			Communication Emphasized						

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2219 Cell Biology Laboratory Prerequisite: Preceded or accompanied by Bio Sci 2213.	1.0- 1.0	71898	LAB	3A	Th	02:00 - 03:50 pm	SHNK	00111	Wilson,T
			Bio Sci Majors Only						
	1.0- 1.0	71956	LAB	3B	Th	05:00 - 06:50 pm	SHNK	00111	Wilson,T
2223 General Genetics Prerequisite: Bio Sci 1113 or 1213.	3.0- 3.0	72639	LEC	1A	MWF	11:00 - 11:50 am	SHNK	00126	Frank,R
2243 Sleep: Function and Dysfunction Prerequisites: Bio Sci 1213.	3.0- 3.0	72841	LEC	1A	MWF	12:00 - 12:50 pm	SHNK	00139	Thimgan,M
2263 Ecology	3.0- 3.0	73543	LEC	1A	TTh	12:30 - 01:45 pm	IDE	00202	Niyogi,D
2383 Plant Biology Prerequisite: Bio Sci 1113 or Bio Sci 1213.	3.0- 3.0	72641	LEC	1A	MWF	10:00 - 10:50 am	NOR	00208	
3000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	71099	IND	6A	ARR	ARR	ARR		Frank,R
	0.0- 6.0	70098	IND	6B	ARR	ARR	ARR		Hou,C
	0.0- 6.0	71174	IND	6C	ARR	ARR	ARR		Huang,Y
	0.0- 6.0	70099	IND	6D	ARR	ARR	ARR		Mormile,M
	0.0- 6.0	70100	IND	6E	ARR	ARR	ARR		Niyogi,D
	0.0- 6.0	70101	IND	6F	ARR	ARR	ARR		Semon,J
	0.0- 6.0	70102	IND	6G	ARR	ARR	ARR		Shannon,K
	0.0- 6.0	70103	IND	6H	ARR	ARR	ARR		Thimgan,M
	0.0- 6.0	71798	IND	6J	ARR	ARR	ARR		Westenberg,D
3001 Special Topics	3.0- 3.0	73210	LEC	1A	TTh	09:30 - 10:45 am	NOR	00208	Hou,C
			Biology of Aging Prerequisite: Bio Sci 2213.						
3313 Microbiology Prerequisite: Chem 1320.	3.0- 3.0	70097	LEC	1A	MWF	10:00 - 10:50 am	BCH	00101	Westenberg,D
3319 Microbiology Lab Prerequisite: Preceded or accompanied by Bio Sci 3313.	2.0- 2.0	71389	LAB	3A	TTh	11:00 - 01:00 pm	SHNK	000G7	Westenberg,D
	2.0- 2.0	71175	LAB	3B	ARR	00:00 - 00:00 am			
			LAB	3B	TTh	02:00 - 03:50 pm	SHNK	000G7	Westenberg,D
3343 Human Anatomy and Physiology II Prerequisites: BIO SCI 1113 or BIO SCI 1213; BIO SCI 2213.	3.0- 3.0	71796	LEC	1A	MWF	09:00 - 09:50 am	CH	00104	Hou,C
3349 Human Anatomy and Physiology II Laboratory Prerequisite: Preceded or accompanied by Bio Sci 3343.	1.0- 1.0	71797	LAB	3A	T	02:00 - 04:50 pm	SHNK	00313	Watters,R
	1.0- 1.0	71872	LAB	3B	T	05:00 - 07:50 pm	SHNK	00313	
3783 Biological Design and Innovation I Prerequisite: At least two 2000 level or higher Biology courses.	3.0- 3.0	71883	LAB	3A	TTh	02:00 - 03:15 pm	CH	00103	Semon,J
4099 Undergraduate Research Prerequisite: Consent of instructor.	1.0- 3.0	71165	IND	6A	ARR	ARR	ARR		Frank,R
	1.0- 3.0	71166	IND	6B	ARR	ARR	ARR		Hou,C
	1.0- 3.0	71167	IND	6C	ARR	ARR	ARR		Huang,Y
	1.0- 3.0	71168	IND	6D	ARR	ARR	ARR		Mormile,M
	1.0- 3.0	71169	IND	6E	ARR	ARR	ARR		Niyogi,D
	1.0- 3.0	71170	IND	6F	ARR	ARR	ARR		Semon,J
	1.0- 3.0	71171	IND	6G	ARR	ARR	ARR		Shannon,K
	1.0- 3.0	71172	IND	6H	ARR	ARR	ARR		Thimgan,M
	1.0- 3.0	71799	IND	6J	ARR	ARR	ARR		Westenberg,D
4383 Toxicology Prerequisites: Bio Sci 2213, Bio Sci 2223, at least Junior standing.	3.0- 3.0	72083	LEC	1A	TTh	11:00 - 12:15 pm	IDE	000G4A	Huang,Y
4666 Nanobiotechnology Prerequisite: Bio Sci 2213 or Bio Sci 2223.	3.0- 3.0	73442	LEC	1A	TTh	09:30 - 10:45 am	SHNK	00305	Huang,Y
5000 Special Problems Prerequisite: Consent of the instructor.	0.0- 6.0	71157	IND	6A	ARR	ARR	ARR		Frank,R
	0.0- 6.0	71158	IND	6B	ARR	ARR	ARR		Hou,C
	0.0- 6.0	71159	IND	6C	ARR	ARR	ARR		Huang,Y
	0.0- 6.0	71160	IND	6D	ARR	ARR	ARR		Mormile,M
	0.0- 6.0	71161	IND	6E	ARR	ARR	ARR		Niyogi,D
	0.0- 6.0	71162	IND	6F	ARR	ARR	ARR		Semon,J
	0.0- 6.0	71163	IND	6G	ARR	ARR	ARR		Shannon,K
	0.0- 6.0	71164	IND	6H	ARR	ARR	ARR		Thimgan,M
	0.0- 6.0	71800	IND	6J	ARR	ARR	ARR		Westenberg,D
5010 Graduate Seminar	0.0- 6.0	70104	RSD	2A	ARR	ARR	ARR		Shannon,K
5040 Oral Examination	0.0- 0.0	71397	IND	6A	ARR	ARR	ARR		
5099 Graduate Research	0.0-15.0	71100	IND	6A	ARR	ARR	ARR		Frank,R
	0.0-15.0	71038	IND	6B	ARR	ARR	ARR		Hou,C

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	0.0-15.0	71173	IND	6C	ARR	ARR	ARR		Huang,Y
	0.0-15.0	71156	IND	6D	ARR	ARR	ARR		Mormile,M
	0.0-15.0	70105	IND	6E	ARR	ARR	ARR		Niyogi,D
	0.0-15.0	70106	IND	6F	ARR	ARR	ARR		Semon,J
	0.0-15.0	70107	IND	6G	ARR	ARR	ARR		Shannon,K
	0.0-15.0	70108	IND	6H	ARR	ARR	ARR		Thimgan,M
	0.0-15.0	71801	IND	6J	ARR	ARR	ARR		Westenberg,D
5240 Tissue Engineering I Prerequisite: Senior standing. (Co-listed with MS&E 5210)	3.0- 3.0	72084	LEC	1A	TTh	12:30 - 01:45 pm	EMGT	00106	Semon,J
5333 Genomics Prerequisite: BIO SCI 4323.	3.0- 3.0	73212	LEC	1A	MWF	01:00 - 01:50 pm	CS	00206	Frank,R
5353 Developmental Biology Prerequisite: Bio Sci 2213.	3.0- 3.0	71974	LEC	1A	TTh	12:30 - 01:45 pm	IDE	000G4A	Shannon,K
5433 Neurobiology Prerequisite: Bio Sci 2213.	3.0- 3.0	72843	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00245	Thimgan,M
5463 Global Ecology Prerequisite: Bio Sci 2263.	3.0- 3.0	73213	LEC	1A	TTh	02:00 - 03:15 pm	IDE	000G4A	Niyogi,D
6223 Research Proposal Writing Prerequisites: Graduate standing.	3.0- 3.0	72551	LEC	1A	ARR	ARR	ARR		Shannon,K
6240 Tissue Engineering II Prerequisite: Graduate standing. (Co-listed with MS&E 6210)	3.0- 3.0	72087	LEC	1A	TTh	12:30 - 01:45 pm	EMGT	00106	Semon,J
6273 Techniques In Applied And Environmental Biology Prerequisite: Graduate standing.	3.0- 3.0	71240	LEC	1A	ARR	ARR	ARR		Huang, Y
6383 Advanced Toxicology Prerequisites: Bio Sci 2213 and Bio Sci 2223.	3.0- 3.0	72085	LEC	1A	TTh	11:00 - 12:15 pm	IDE	000G4A	Huang, Y
6666 Advanced Nanotechnology in Biomedicine Prerequisites: Bio Sci 2213 and Bio Sci 2223 and graduate standing.	3.0- 3.0	73443	LEC	1A	TTh	09:30 - 10:45 am	SHNK	00305	Huang, Y

Business

1110 Introduction to Management and Entrepreneurship	3.0- 3.0	70109	LEC	1A	TTh	09:30 - 10:45 am	TMH	00254	Elrod,C
	3.0- 3.0	71787	LEC	1B	W	04:00 - 06:30 pm	FUL	00227	Brinkmann,D
1210 Financial Accounting	3.0- 3.0	71674	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	72595	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00216	Eng,L
4000 Special Problems	0.0- 6.0	71507	IND	6A	ARR	ARR	ARR		Elrod,C
4099 Undergraduate Research	0.0- 6.0	71121	IND	6A	ARR	ARR	ARR		Lea,B
	0.0- 6.0	71530	IND	6B	ARR	ARR	ARR		
4675 International Business	3.0- 3.0	71788	LEC	1A	MWF	01:00 - 01:50 pm	FUL	00107A	Stanley,S
5000 Special Problems Prerequisite: Admission to the MBA program.	0.0- 6.0	71279	IND	6A	ARR	ARR	ARR		Elrod,C
	0.0- 6.0	71406	IND	6B	ARR	ARR	ARR		Lea,B
	0.0- 6.0	71826	IND	6C	ARR	ARR	ARR		Siau,K
	0.0- 6.0	72880	IND	6D	ARR	ARR	ARR		
5099 Research Prerequisite: Permission of the instructor.	0.0- 9.0	71635	IND	6A	ARR	ARR	ARR		Elrod,C
	0.0- 9.0	71644	IND	6B	ARR	ARR	ARR		Eng,L
	0.0- 9.0	71743	IND	6C	ARR	ARR	ARR		Siau,K
5470 Human Resource Management Prerequisite: Bus 1110.	3.0- 3.0	72450	LEC	1A	W	07:00 - 09:30 pm	FUL	00107A	Tharp,J
5580 Strategic Management Prerequisites: MKT 3110 or Eng Mgt 3510; Finance 2150 or Eng Mgt 3200; Senior standing.	3.0- 3.0	70110	LEC	1A	MWF	02:00 - 02:50 pm	CS	00209	Fang,H
5980 Business Models for Entrepreneurship and Innovation Prerequisite: Senior or graduate standing.	3.0- 3.0	72091	LEC	1A	MWF	03:00 - 03:50 pm	FUL	00107A	Fang,H
6224 Managerial Accounting and Control Prerequisite: Graduate standing.	3.0- 3.0	71375	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	71376	LEC	1A	T	04:00 - 06:30 pm	FUL	00107A	Elrod,C

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6675	Advanced International Business Prerequisites: MKT 3110 or MKT 5105 or Eng Mgt 3510.	3.0- 3.0	72447	LEC	1A	MWF	01:00 - 01:50 pm	FUL	00107A	Stanley,S
6723	Corporate Information Systems Management Prerequisite: Graduate standing.	3.0- 3.0	71675	LEC	1A	Th	07:00 - 09:30 pm	FUL	00107A	Siau,K

Ceramic Engineering

2002	Cooperative Training	1.0- 3.0	70112	IND	6A	ARR	ARR	ARR		Huebner,W
2120	Introduction To Glass Science And Technology Prerequisite: "C" or better grade in Cer Eng 2110.	3.0- 3.0	70111	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00211	Brow,R
2210	Ceramics In The Modern World	2.0- 2.0	71046	LEC	1A	F	01:00 - 02:40 pm	MCNT	00212	Hilmas,G
2315	Ceramic Materials Laboratory I-Characterization Of Materials Prerequisite: Sophomore standing.	2.0- 2.0	72583	LAB	3A	M	01:00 - 01:50 pm	MCNT	00210	Reidmeyer,M
		2.0- 2.0	72584	LAB	3B			MCNT	00253	
2325	Ceramic Materials Laboratory II Glass And Ceramic Processing Prerequisite: "C" or better grade in Cer Eng 2315.	2.0- 2.0	71047	LAB	3A	T	01:00 - 02:50 pm	MCNT	00210	Brow,R
		2.0- 2.0	72120	LAB	3B	W	01:00 - 02:50 pm	MCNT	00210	Brow,R
3110	Introduction to Biomedical Engineering Prerequisites: Junior standing or above.	3.0- 3.0	72793	LEC	1A	MWF	01:00 - 01:50 pm	EECH	00104	
3230	Thermodynamics of Materials Prerequisite: "C" or better grade in either Met Eng 1210 or Chem 1320.	3.0- 3.0	70115	LEC	1A	MWF	10:00 - 10:50 am	EMGT	00103	Fahrenheitz,W
3240	Applied Glass Forming Prerequisites: "C" or better grade in either Cer Eng 2210 or Met Eng 1210. Freshman standing or sophomore standing only.	2.0- 2.0		LEC	1A	F	04:00 - 04:50 pm	MCNT	00210	Reidmeyer,M
		2.0- 2.0	71843	LAB	3A	M	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
		2.0- 2.0	72578	LAB	3B	M	04:00 - 06:00 pm	Glass Shop	000G3	Reidmeyer,M
		2.0- 2.0	72579	LAB	3C	T	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
		2.0- 2.0	72580	LAB	3D	T	04:00 - 06:00 pm	Glass Shop	000G3	Reidmeyer,M
		2.0- 2.0	72581	LAB	3E	W	02:00 - 04:00 pm	Glass Shop	000G3	Reidmeyer,M
		2.0- 2.0	72582	LAB	3F	W	04:00 - 06:00 pm	Glass Shop	000G3	Reidmeyer,M
3325	Ceramic Processing Lab II Prerequisite: "C" or better grade in Cer Eng 3315.	2.0- 2.0	70113	LAB	3A	T	02:00 - 02:50 pm	MCNT	00243	Rahaman,M
							Additional meeting time to be arranged.			
				LAB	3A	T	03:00 - 04:50 pm	MCNT	00142	
							Additional meeting time to be arranged.			
		2.0- 2.0	70114	LAB	3B	W	01:00 - 01:50 pm	MCNT	00206	
							Additional meeting time to be arranged.			
				LAB	3B	W	02:00 - 03:50 pm	MCNT	00142	Rahaman,M
							Additional meeting time to be arranged.			
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	71336	LEC	1A	MWF	12:00 - 12:50 pm	MCNT	00211	Miller,F
4000	Special Problems	0.0- 6.0	70117	IND	6A	ARR	ARR	ARR		Brow,R
		0.0- 6.0	70118	IND	6B	ARR	ARR	ARR		Day,D
		0.0- 6.0	70119	IND	6C	ARR	ARR	ARR		Dogan,F
		0.0- 6.0	70120	IND	6D	ARR	ARR	ARR		Fahrenheitz,W
		0.0- 6.0	70121	IND	6E	ARR	ARR	ARR		Hilmas,G
		0.0- 6.0	70122	IND	6F	ARR	ARR	ARR		Huebner,W
		0.0- 6.0	70123	IND	6G	ARR	ARR	ARR		Rahaman,M
		0.0- 6.0	70124	IND	6H	ARR	ARR	ARR		Reidmeyer,M
		0.0- 6.0	71407	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	70116	LAB	3A	MWF	11:00 - 11:50 am	MCNT	00212	O'Keefe,M
							Additional meeting time to be arranged.			
4099	Undergraduate Research	0.0- 6.0	70125	IND	6A	ARR	ARR	ARR		Brow,R
		0.0- 6.0	70126	IND	6B	ARR	ARR	ARR		Day,D
		0.0- 6.0	70127	IND	6C	ARR	ARR	ARR		Dogan,F
		0.0- 6.0	70128	IND	6D	ARR	ARR	ARR		Fahrenheitz,W
		0.0- 6.0	70129	IND	6E	ARR	ARR	ARR		Hilmas,G
		0.0- 6.0	70130	IND	6F	ARR	ARR	ARR		Huebner,W
		0.0- 6.0	70131	IND	6G	ARR	ARR	ARR		Rahaman,M
		0.0- 6.0	70132	IND	6H	ARR	ARR	ARR		Smith,J

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4220 Mechanical Properties Of Ceramics Prerequisite: "C" or better grade in Civ Eng 2210.	4.0- 4.0		LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00212	Hilmas,G
	4.0- 4.0	71120	LAB	3A	ARR	ARR	ARR		Hilmas,G
4240 Electrical Properties Of Ceramics Prerequisite: "C" or better in Physics 2305.	3.0- 3.0	72089	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00245	Huebner,W
5000 Special Problems	0.0- 6.0	70133	IND	6A	ARR	ARR	ARR		Brow,R
	0.0- 6.0	70134	IND	6B	ARR	ARR	ARR		Reidmeyer,M
	0.0- 6.0	71408	IND	6C	ARR	ARR	ARR		Smith,J
5040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70136	IND	6A	ARR	ARR	ARR		Hilmas,G
5250 Refractories Prerequisite: Cer Eng 3230.	3.0- 3.0	71844	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	70137	IND	6A	ARR	ARR	ARR		Hilmas,G
6085 Internship DE students only.	0.0-15.0	70135	IND	6A	ARR	ARR	ARR		
6099 Research	0.0-15.0	72911	IND	6A	ARR	ARR	ARR		Bartlett,L
	0.0-15.0	72912	IND	6B	ARR	ARR	ARR		Brow,R
	0.0-15.0	72913	IND	6C	ARR	ARR	ARR		Dogan,F
	0.0-15.0	72914	IND	6D	ARR	ARR	ARR		Fahrenholtz,W
	0.0-15.0	72917	IND	6E	ARR	ARR	ARR		Hilmas,G
	0.0-15.0	72918	IND	6F	ARR	ARR	ARR		Huebner,W
	0.0-15.0	72919	IND	6G	ARR	ARR	ARR		Kumar,A
	0.0-15.0	73396	IND	6H	ARR	ARR	ARR		Rahaman,M
	0.0-15.0	73397	IND	6J	ARR	ARR	ARR		Smith,J
6220 Optical Properties Of Materials	3.0- 3.0	73542	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00265	Huebner,W

Chemical Engineering

2100 Chemical Engineering Material & Energy Balances Prerequisites: Chem 1320 or Geology 3410; Math 1215 or Math 1221; preceded or accompanied by Physics 1135.	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	BERTELS	00112B	
			LEC	1A	TTh	11:00 - 11:50 am	BERTELS	00112A	Barua,S
	3.0- 3.0	70139	LAB	3A	TTh	09:30 - 10:45 am	BERTELS	00112B	
			LAB	3A	TTh	09:30 - 10:45 am	BERTELS	00112A	Barua,S
2110 Chemical Engineering Thermodynamics I Prerequisites: Preceded by Math 2222; Preceded or accompanied by Chem Eng 2100.	3.0- 3.0	72257	LEC	1A	MWF	08:00 - 08:50 am	BERTELS	00112A	Barua,D
			LEC	1A	MWF	08:00 - 08:50 am	BERTELS	00112B	
	3.0- 3.0	73367	LEC	1B	MWF	08:00 - 08:50 am	BERTELS	00B10	Wang,J
2300 Chemical Process Materials Prerequisites: Physics 1135.	3.0- 3.0	71857	LEC	1A	MWF	05:00 - 05:50 pm	BERTELS	00112B	
			LEC	1A	MWF	05:00 - 05:50 pm	BERTELS	00B10	Rezaei,F
2310 Professional Practice And Ethics Prerequisite: At least sophomore standing.	1.0- 1.0	71244	LEC	1A	W	04:00 - 04:50 pm	BERTELS	00B10	Neogi,P
3002 Cooperative Engineering Training	0.0- 6.0	70140	IND	6A	ARR	ARR	ARR		Ludlow,D
3100 Chemical Engineering Fluid Flow Prerequisites: Chem Eng 2100 and Math 3304; Chem Eng majors only.	3.0- 3.0	71835	LEC	1A	MWF	12:00 - 12:50 pm	BERTELS	00B12A	Neogi,P
			Chem Eng Majors Only						
3110 Chemical Engineering Heat Transfer Prerequisites: Math 2222 and preceded or accompanied by Chem Eng 3100. Chem Eng majors only.	2.0- 2.0	71836	LEC	1A	TTh	12:00 - 12:50 pm	BERTELS	00112A	Liang,X
			Chem Eng Majors Only						
			LEC	1A	TTh	12:00 - 12:50 pm	BERTELS	00112B	
			Chem Eng Majors Only						
3120 Chemical Engineering Thermodynamics II Prerequisites: Grade of "C" or better in Chem Eng 2100 and Chem Eng 2110; Chem Eng majors only.	3.0- 3.0	71390	LEC	1A	MWF	03:00 - 03:50 pm	BERTELS	00B10	Park,J
			Chem Eng Majors Only						
3130 Staged Mass Transfer Prerequisites: Chem Eng 3120, admitted to Chem Eng program.	3.0- 3.0	70141	LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00B10	Luks,C
3140 Continuous Mass Transfer Prerequisites: Preceded or accompanied by Chem Eng 3130. Chem Eng majors only.	3.0- 3.0	70142	LEC	1A	MWF	02:00 - 02:50 pm	SHNK	00126	Neogi,P
			Chem Eng Majors Only						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3150 Chemical Engineering Reactor Design Prerequisites: Preceded or accompanied by either Chem Eng 3140 or Chem Eng 3200 or preceded by both Chem Eng 3111 and Chem Eng 3101. Admitted to Chem Eng program.	3.0- 3.0	71678	LEC	1A	MWF	12:00 - 12:50 pm	BERTELS	00B12B	Liang,X
3160 Molecular Chemical Engineering Prerequisites: Chem Eng 3120, admitted to Chem Eng program.	3.0- 3.0	70143	LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00112A	Wang,J
3200 Biochemical Separations Prerequisites: Chem Eng 3120. Chem Eng majors only.	3.0- 3.0	70144	LEC	1A	MWF	02:00 - 02:50 pm	BERTELS	00B12B	Forciniti,D
4000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	70146	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	70147	IND	6B	ARR	ARR	ARR		Barua,D
	0.0- 6.0	70148	IND	6C	ARR	ARR	ARR		Barua,S
	0.0- 6.0	70149	IND	6D	ARR	ARR	ARR		Forciniti,D
	0.0- 6.0	70150	IND	6E	ARR	ARR	ARR		Liang,X
	0.0- 6.0	70151	IND	6F	ARR	ARR	ARR		Liapis,A
	0.0- 6.0	70152	IND	6G	ARR	ARR	ARR		Ludlow,D
	0.0- 6.0	70153	IND	6H	ARR	ARR	ARR		Luks,C
	0.0- 6.0	71584	IND	6J	ARR	ARR	ARR		Neogi,P
	0.0- 6.0	71810	IND	6K	ARR	ARR	ARR		Park,J
	0.0- 6.0	71926	IND	6L	ARR	ARR	ARR		Rezaei,F
	0.0- 6.0	71951	IND	6M	ARR	ARR	ARR		Rownaghi,A
	0.0- 6.0	71969	IND	6N	ARR	ARR	ARR		Sitton,O
	0.0- 6.0	72388	IND	6P	ARR	ARR	ARR		Smith,J
	0.0- 6.0	72389	IND	6Q	ARR	ARR	ARR		Wang,J
	0.0- 6.0	72980	IND	6R	ARR	ARR	ARR		Westenberg,D
4096 Chemical Engineering Economics Prerequisite: Preceded or accompanied by Chem Eng 3130.	2.0- 2.0	72139	LEC	1A	TTh	12:00 - 12:50 pm	BERTELS	00B12B	Luks,C
4097 Chemical Process Design Prerequisites: Chem Eng 3130 and Chem Eng 3150; preceded or accompanied by Chem Eng 4110 and either Chem Eng 4096 or Chem Eng 4091.	3.0- 3.0		LEC	1A	Th	ARR	ARR		Luks,C
	3.0- 3.0	71771	LAB	3A	MWF	02:00 - 03:50 pm	BERTELS	00112B	Luks,C
			LAB	3A	MWF	02:00 - 03:50 pm	BERTELS	00112A	
4099 Undergraduate Research	0.0- 6.0	70156	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	70157	IND	6B	ARR	ARR	ARR		Barua,D
	0.0- 6.0	71125	IND	6C	ARR	ARR	ARR		Barua,S
	0.0- 6.0	71126	IND	6D	ARR	ARR	ARR		Book,N
	0.0- 6.0	70158	IND	6E	ARR	ARR	ARR		Forciniti,D
	0.0- 6.0	70159	IND	6F	ARR	ARR	ARR		Liang,X
	0.0- 6.0	70160	IND	6G	ARR	ARR	ARR		Liapis,A
	0.0- 6.0	70161	IND	6H	ARR	ARR	ARR		Ludlow,D
	0.0- 6.0	70162	IND	6J	ARR	ARR	ARR		Neogi,P
	0.0- 6.0	70163	IND	6K	ARR	ARR	ARR		Park,J
	0.0- 6.0	71811	IND	6L	ARR	ARR	ARR		Rezaei,F
	0.0- 6.0	71924	IND	6M	ARR	ARR	ARR		Rownaghi,A
	0.0- 6.0	71952	IND	6N	ARR	ARR	ARR		Sitton,O
	0.0- 6.0	72390	IND	6P	ARR	ARR	ARR		Smith,J
	0.0- 6.0	72391	IND	6Q	ARR	ARR	ARR		Wang,J
	0.0- 6.0	72392	IND	6R	ARR	ARR	ARR		Westenberg,D
4100 Chemical Engineering Laboratory I Prerequisites: Chem Eng 3100 and Chem Eng 3110.	2.0- 2.0		LEC	1A	T	08:00 - 08:50 am	CH	00105	Sitton,O
	2.0- 2.0	71806	LAB	3A	T	09:00 - 11:50 am	Lab	00124	Sitton,O
									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.
	2.0- 2.0	73537	LAB	3B	T	02:00 - 04:50 pm	Ctl Lab	124	Sitton,O
	2.0- 2.0	73538	LAB	3C	Th	09:00 - 11:50 am	Lab	00124	Sitton,O
	2.0- 2.0	73539	LAB	3D	Th	02:00 - 04:50 pm	Lab	00124	Sitton,O

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4110 Chemical Engineering Process Dynamics And Control Prerequisites: Preceded or accompanied by any one of Chem Eng 4100 or Chem Eng 4130 or Chem Eng 4200; or preceded by Chem Eng 3150, Chem Eng 3131 and Chem Eng 3141; or preceded by Chem Eng 3150 and preceded or accompanied by Chem Eng 5250.	3.0- 3.0	72398	LEC	1A	MWF	08:00 - 08:50 am	SHNK	00126	Ryan,P
4120 Process Dynamics And Control Laboratory Prerequisite: Preceded or accompanied by Chem Eng 4110.	1.0- 1.0	71809	LAB	3A	T	09:00 - 11:50 am	Lab	00124	Sitton,O
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.	1.0- 1.0	73540	LAB	3B	Th	09:00 - 11:50 am	Lab	00124	Sitton,O
	3.0- 3.0		LEC	1A	Th	08:00 - 08:50 am	CH	00105	Sitton,O
	3.0- 3.0	71808	LAB	3A	TTh	09:00 - 11:50 am	Lab	00124	Sitton,O
	3.0- 3.0	73541	LAB	3B	TTh	02:00 - 04:50 pm	Lab	00124	Sitton,O
4140 Chemical Process Safety Prerequisite: Preceded or accompanied by Chem Eng 3150.	3.0- 3.0	71333	LEC	1A	MWF	11:00 - 11:50 am	BERTELS	00B10	Ludlow,D
4210 Biochemical Reactors Prerequisite: Chem Eng 3150 or graduate standing.	3.0- 3.0	70154	LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00B12A	Forciniti,D
4220 Biochemical Reactor Laboratory Prerequisites: Chem Eng 3200 and preceded or accompanied by Chem Eng 4210; or preceded or accompanied by Chem Eng 5250 and Chem Eng 4210.	3.0- 3.0		LEC	1A	ARR	ARR	ARR		Sitton,O
	3.0- 3.0	70145	LAB	3A	TTh	02:00 - 04:50 pm	Lab	00124	Sitton,O
4241 Process Safety in the Chemical and Biochemical Industries Prerequisites: Preceded or accompanied by Chem Eng 4210.	3.0- 3.0	73190	LEC	1A	MWF	11:00 - 11:50 am	Bert Conf	110H	Forciniti,D
			LEC	1A	ARR	ARR	ARR		
5000 Special Problems	0.0- 6.0	70164	IND	6A	ARR	ARR	ARR		Al Dahhan,M
	0.0- 6.0	71585	IND	6B	ARR	ARR	ARR		Barua,D
	0.0- 6.0	71586	IND	6C	ARR	ARR	ARR		Barua,S
	0.0- 6.0	71587	IND	6D	ARR	ARR	ARR		Forciniti,D
	0.0- 6.0	71588	IND	6E	ARR	ARR	ARR		Liang,X
	0.0- 6.0	71589	IND	6F	ARR	ARR	ARR		Liapis,A
	0.0- 6.0	71590	IND	6G	ARR	ARR	ARR		Ludlow,D
	0.0- 6.0	71591	IND	6H	ARR	ARR	ARR		Luks,C
	0.0- 6.0	71592	IND	6J	ARR	ARR	ARR		Neogi,P
	0.0- 6.0	71593	IND	6K	ARR	ARR	ARR		Park,J
	0.0- 6.0	71812	IND	6L	ARR	ARR	ARR		Rezaei,F
	0.0- 6.0	71953	IND	6M	ARR	ARR	ARR		Rownaghi,A
	0.0- 6.0	71954	IND	6N	ARR	ARR	ARR		Sitton,O
	0.0- 6.0	72393	IND	6P	ARR	ARR	ARR		Smith,J
	0.0- 6.0	72394	IND	6Q	ARR	ARR	ARR		Wang,J
	0.0- 6.0	72395	IND	6R	ARR	ARR	ARR		Westenberg,D
	5001 Special Topics	0.0- 6.0	73611	LEC	1A	MWF	04:00 - 04:50 pm	SHNK	00139

Kinetics Complex Rxns
Prerequisites: CHEM ENG 3150.

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 0.0- 0.0	70175 70176	IND IND	6A 6B	ARR ARR	ARR ARR	ARR ARR		
5110 Intermediate Chemical Reactor Design Prerequisite: Chem Eng 3150 or graduate standing.	3.0- 3.0	70155	LEC	1A	MWF	10:00 - 10:50 am	Lab	00124	Al Dahhan,M
5130 Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing. (Co-listed with Eng Mgt 4312)	3.0- 3.0	71721	LEC	1A	M	07:00 - 09:30 pm	CS	00209	Schmidt,M
5190 Plantwide Process Control Prerequisites: Chem Eng 4110 or Elec Eng 3320 or Elec Eng 3340 or graduate standing. (Co-listed with Elec Eng 5350)	3.0- 3.0	72065	LEC	1A	TTh	02:00 - 03:15 pm	EECH	00103	Erickson,K
5210 Intermediate Biochemical Reactors Prerequisite: Preceded or accompanied by Chem Eng 3150 or graduate standing.	3.0- 3.0	72547	LEC	1A	MWF	09:00 - 09:50 am	BERTELS	00B12A	Forciniti,D
5220 Intermediate Engineering Thermodynamics Prerequisites: Senior or graduate standing.	3.0- 3.0	73533	LEC	1A	MW	04:00 - 05:15 pm	BERTELS	00B12B	Luks,C
5241 Intermediate Process Safety in the Chemical and Biochemical Industries Prerequisites: Chem Eng 3150 or graduate standing.	3.0- 3.0	73191	LEC LEC	1A 1A	MWF ARR	11:00 - 11:50 am ARR	Bert Conf ARR	110H	Forciniti,D
5315 Corrosion And Its Prevention Prerequisite: "C" or better grade in either Chem 3430 or Cer Eng 3230 . (Co-listed with Met Eng 4220)	3.0- 3.0	72132	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00210	Schlesinger,M
6015 Lecture Series Prerequisites: Graduate standing.	1.0- 1.0	72609	LEC	1A	W	03:00 - 03:50 pm	BERTELS	00B12B	
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70177	IND	6A	ARR	ARR	ARR		Neogi,P
6085 Internship DE students only.	0.0-15.0	70174	IND	6A	ARR	ARR	ARR		Al Dahhan,M
6099 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 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0 0.0-15.0	70166 70167 71127 71128 70168 70169 70170 70171 70172 70173 71813 71925 71955 72396 72397 70165	IND IND IND IND IND IND IND IND IND IND IND IND IND IND IND IND IND IND IND IND	6A 6B 6C 6D 6E 6F 6G 6H 6J 6K 6L 6M 6N 6P 6Q 1A	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR		Al Dahhan,M Barua,D Barua,S Forciniti,D Liang,X Liapis,A Ludlow,D Neogi,P Park,J Rezaei,F Rownaghi,A Sitton,O Smith,J Wang,J Westenberg,D Park,J
6110 Advanced Transport Phenomena Prerequisite: Chem Eng 5100.	3.0- 3.0	70165	LEC	1A	MWF	01:00 - 01:50 pm	BERTELS	00B12B	
6120 Applied Mathematics In Chemical Engineering	3.0- 3.0 3.0- 3.0		LEC LAB	1A 3A	MF W	02:00 - 03:15 pm 11:00 - 12:15 pm	SHNK ARR	00305	Liapis,A

Chemistry

1100 Introduction To Laboratory Safety & Hazardous Materials Meets only first three weeks of semester.	1.0- 1.0 1.0- 1.0	70190 73507	LEC LEC	1A 1B	MTWThF MTWThF	08:00 - 08:50 am 08:00 - 08:50 am	SHNK SHNK	000G3 000G3	Whitefield,P Whitefield,P
1310 General Chemistry I Prerequisite: Entrance requirements.	4.0- 4.0	70178	LEC	1AA	MW	10:00 - 10:50 am	SHNK	000G3	Schmittzehe,E
	4.0- 4.0	71982	LEC	1BB	MW	10:00 - 10:50 am	SHNK	000G3	Schmittzehe,E
	4.0- 4.0	73523	LEC	1CC	MW	10:00 - 10:50 am	ARR		Schmittzehe,E

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	4.0- 4.0	73524	LEC	1DD	MW	10:00 - 10:50 am	ARR		Schmittzehe,E	
	0.0- 0.0	70179	RSD	2A1	T	08:00 - 09:50 am	SHNK	00139		
	0.0- 0.0	70180	RSD	2A2	T	09:00 - 10:50 am	SHNK	00126		
	0.0- 0.0	70181	RSD	2A3	T	10:00 - 11:50 am	SHNK	00139		
	0.0- 0.0	70182	RSD	2A4	T	11:00 - 12:50 pm	SHNK	00126		
	See 'Notes' for Class Schedule									
	0.0- 0.0	71551	RSD	2A5	T	12:00 - 01:50 pm	SHNK	00139		
	0.0- 0.0	71552	RSD	2A6	T	01:00 - 02:50 pm	SHNK	00126		
	0.0- 0.0	71553	RSD	2B1	ARR	ARR	ARR			
1319	1.0- 1.0	70183	LAB	3A1	T	01:00 - 03:50 pm	SHNK	00201	Winiarz,J	
	1.0- 1.0	71177	LAB	3B1	T	01:00 - 03:50 pm	SHNK	00201	Winiarz,J	
	1.0- 1.0	70185	LAB	3C1	W	01:00 - 03:50 pm	SHNK	00201	Winiarz,J	
	1.0- 1.0	72655	LAB	3D1	W	01:00 - 03:50 pm	SHNK	00201	Winiarz,J	
	1.0- 1.0	70186	LAB	3E1	Th	01:00 - 03:50 pm	SHNK	00201	Winiarz,J	
	1.0- 1.0	70187	LAB	3F1	Th	01:00 - 03:50 pm	SHNK	00201	Winiarz,J	
1320	3.0- 3.0	70189	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	2.0- 2.0	70191	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	71280	LAB	3B	TTh	11:30 - 12:20 pm	SHNK	00305	Switzer,J	
			LAB	3B	TTh	03:30 - 05:20 pm	SHNK	00212		
2002	1.0- 3.0	71942	IND	6A	ARR	ARR	ARR		Woelk,K	
2100	1.0- 1.0	70192	LEC	1A	W	06:00 - 07:00 pm	CH	00104	Collier,H	
2210	4.0- 4.0	71471	LEC	1A	MTWF	01:00 - 01:50 pm	EMGT	00103	Sotiriou-Leventis,C	
	Prerequisites: Chem 1310, 1319, 1320; or Chem 1351.									
2219	1.0- 1.0	71984	LAB	3A	W	06:00 - 06:50 pm	SHNK	00140	Bone,T	
	Prerequisites: Preceded or accompanied by Chem 2210 and Chem 1100.									
	1.0- 1.0	72010	LAB	3B	Th	06:00 - 06:50 pm	SHNK	00139	Bone,T	
			LAB	3B	Th	07:00 - 08:50 pm	SHNK	00303		
2220	4.0- 4.0	70193	LEC	1A	MTWF	01:00 - 01:50 pm	MCNT	00204	Reddy,V	
	Prerequisites: Grade of "C" or better in Chem 2210.									
2229	1.0- 1.0	70195	LAB	3A	W	02:00 - 02:50 pm	SHNK	00139	Bone,T	
	Prerequisites: Chem 2219 or Chem 2289, preceded or accompanied by both Chem 2220 and Chem 1100.									
	1.0- 1.0	71208	LAB	3B	Th	02:00 - 02:50 pm	SHNK	00140	Bone,T	
			LAB	3B	Th	03:00 - 04:50 pm	SHNK	00303		
			LAB	3B	Th	03:00 - 04:50 pm	SHNK	00303		
			LAB	3B	Th	02:00 - 02:50 pm	SHNK	00139		
			LAB	3B	Th	03:00 - 04:50 pm	SHNK	00303		
			LAB	3B	Th	03:00 - 04:50 pm	SHNK	00303		
2289	1.0- 1.0	70194	LAB	3A	M	06:00 - 06:50 pm	SHNK	00139	Bone,T	
	Prerequisites: Preceded or accompanied by both Chem 2210 and Chem 1100.									
			LAB	3A	M	07:00 - 08:50 pm	SHNK	00303		
			LAB	3A	M	07:00 - 08:50 pm	SHNK	00303		
	1.0- 1.0	71281	LAB	3B	T	02:00 - 02:50 pm	SHNK	00140	Bone,T	
	Chem Eng students only									
			LAB	3B	T	03:00 - 04:50 pm	SHNK	00303		
	Chem Eng students only									
2319	1.0- 1.0	70197	LAB	3A	M	01:00 - 01:50 pm	SHNK	00305	Choudhury,A	
	Prerequisites: Preceded or accompanied by Chem 2310 and Chem 1100.									
			LAB	3A	M	02:00 - 03:50 pm	SHNK	00224		
2320	3.0- 3.0	73508	LEC	1A	MWF	10:00 - 10:50 am	CH	00103	Choudhury,A	
	Prerequisites: CHEM 2310.									
2510	4.0- 4.0		LEC	1A	MWF	11:00 - 11:50 am	SHNK	00305	Nam,P	
	Prerequisites: Chem 1320 and preceded or accompanied by Chem 1100.									
	4.0- 4.0	71325	LAB	3A	T	02:00 - 02:50 pm	SHNK	00305	Nam,P	
			LAB	3A	T	03:00 - 04:50 pm	SHNK	00307		
	4.0- 4.0	71394	LAB	3B	Th	02:00 - 02:50 pm	SHNK	00305	Nam,P	
			LAB	3B	Th	03:00 - 04:50 pm	SHNK	00307		
3410	3.0- 3.0	70198	LEC	1A	MWF	10:00 - 10:50 am	EECH	00G31	Woelk,K	
	Prerequisites: Physics 1111 or Physics 1135; accompanied or preceded by either Math 1215 or Math 1221.									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
3419 Physical Chemistry Laboratory I Prerequisites: Preceded or accompanied by both Chem 3410 and Chem 1100.	1.0- 1.0	70199	LAB	3A	W	01:00 - 01:50 pm	SHNK	00305	Grubbs,G	
			LAB	3A	W	02:00 - 03:50 pm	SHNK	00125		
3420 Introduction To Quantum Chemistry Prerequisites: Physics 2135 or Physics 2111; preceded or accompanied by Math 2222.	3.0- 3.0	72657	LEC	1A	MWF	08:00 - 08:50 am	SHNK	00305	Mochalin,V	
3459 Accelerated Physical Chemistry Laboratory Prerequisites: Preceded or accompanied by both Chem 3420 and Chem 1100.	2.0- 2.0	72540	LAB	3A	W	01:00 - 01:50 pm	SHNK	00305	Grubbs,G	
			LAB	3A	W	02:00 - 05:50 pm	SHNK	00125		
4000 Special Problems Prerequisite: Preceded or accompanied by Chem 1100 or an equivalent training program approved by S&T. Consent of instructor required.	0.0- 6.0	70200	IND	6A	ARR	ARR	ARR		Choudhury,A	
	0.0- 6.0	70201	IND	6B	ARR	ARR	ARR		Dawes,R	
	0.0- 6.0	70202	IND	6C	ARR	ARR	ARR		Ercal,N	
	0.0- 6.0	70203	IND	6D	ARR	ARR	ARR		Kapila,S	
	0.0- 6.0	70204	IND	6E	ARR	ARR	ARR		Leventis,N	
	0.0- 6.0	70205	IND	6F	ARR	ARR	ARR		Ma,Y	
	0.0- 6.0	71141	IND	6G	ARR	ARR	ARR		Nam,P	
	0.0- 6.0	71473	IND	6H	ARR	ARR	ARR		Nath,M	
	0.0- 6.0	70206	IND	6J	ARR	ARR	ARR		Reddy,V	
	0.0- 6.0	70207	IND	6K	ARR	ARR	ARR		Schuman,T	
	0.0- 6.0	70208	IND	6L	ARR	ARR	ARR		Sotiriou-Leventis,C	
	0.0- 6.0	71688	IND	6M	ARR	ARR	ARR		Stavropoulos,P	
	0.0- 6.0	71689	IND	6N	ARR	ARR	ARR		Switzer,J	
	0.0- 6.0	71690	IND	6P	ARR	ARR	ARR		Van De Mark,M	
	0.0- 6.0	71691	IND	6Q	ARR	ARR	ARR		Wang,R	
	0.0- 6.0	71692	IND	6R	ARR	ARR	ARR		Whitefield,P	
	0.0- 6.0	71723	IND	6T	ARR	ARR	ARR		Winiarz,J	
	0.0- 6.0	72210	IND	6U	ARR	ARR	ARR		Woelk,K	
	4010 Undergraduate Seminar	1.0- 1.0	71079	RSD	2A	ARR	ARR	ARR		Choudhury,A
		1.0- 1.0	71080	RSD	2B	ARR	ARR	ARR		Dawes,R
1.0- 1.0		71081	RSD	2C	ARR	ARR	ARR		Ercal,N	
1.0- 1.0		71082	RSD	2D	ARR	ARR	ARR		Grubbs,G	
1.0- 1.0		71083	RSD	2E	ARR	ARR	ARR		Kapila,S	
1.0- 1.0		71084	RSD	2F	ARR	ARR	ARR		Leventis,N	
1.0- 1.0		71444	RSD	2G	ARR	ARR	ARR		Long,G	
1.0- 1.0		71085	RSD	2H	ARR	ARR	ARR		Ma,Y	
1.0- 1.0		71086	RSD	2J	ARR	ARR	ARR		Mochalin,V	
1.0- 1.0		71478	RSD	2K	ARR	ARR	ARR		Nam,P	
1.0- 1.0		71087	RSD	2L	ARR	ARR	ARR		Nath,M	
1.0- 1.0		71088	RSD	2M	ARR	ARR	ARR		Reddy,V	
1.0- 1.0		71089	RSD	2N	ARR	ARR	ARR		Schuman,T	
1.0- 1.0		71090	RSD	2P	ARR	ARR	ARR		Sotiriou-Leventis,C	
1.0- 1.0		71091	RSD	2Q	ARR	ARR	ARR		Stavropoulos,P	
1.0- 1.0		71092	RSD	2R	ARR	ARR	ARR		Switzer,J	
1.0- 1.0		71724	RSD	2T	ARR	ARR	ARR		Wang,R	
1.0- 1.0		71814	RSD	2U	ARR	ARR	ARR		Whitefield,P	
1.0- 1.0		72211	RSD	2V	ARR	ARR	ARR		Winiarz,J	
4099 Undergraduate Research Prerequisite: Must meet departmental requirements for instruction in laboratory safety. Consent of instructor required.		0.0- 6.0	70213	IND	6A	ARR	ARR	ARR		Choudhury,A
	0.0- 6.0	70214	IND	6B	ARR	ARR	ARR		Dawes,R	
	0.0- 6.0	70215	IND	6C	ARR	ARR	ARR		Ercal,N	
	0.0- 6.0	70216	IND	6D	ARR	ARR	ARR		Grubbs,G	
	0.0- 6.0	70217	IND	6E	ARR	ARR	ARR		Kapila,S	
	0.0- 6.0	70218	IND	6F	ARR	ARR	ARR		Leventis,N	
	0.0- 6.0	70219	IND	6G	ARR	ARR	ARR		Ma,Y	
	0.0- 6.0	70220	IND	6H	ARR	ARR	ARR		Mochalin,V	
	0.0- 6.0	70221	IND	6J	ARR	ARR	ARR		Nam,P	
	0.0- 6.0	71479	IND	6K	ARR	ARR	ARR		Nath,M	
	0.0- 6.0	70222	IND	6L	ARR	ARR	ARR		Reddy,V	
	0.0- 6.0	70223	IND	6M	ARR	ARR	ARR		Schuman,T	
	0.0- 6.0	70224	IND	6N	ARR	ARR	ARR		Shi,H	
	0.0- 6.0	70225	IND	6P	ARR	ARR	ARR		Sotiriou-Leventis,C	
	0.0- 6.0	70226	IND	6Q	ARR	ARR	ARR		Stavropoulos,P	
	0.0- 6.0	70227	IND	6R	ARR	ARR	ARR		Switzer,J	
	0.0- 6.0	70228	IND	6T	ARR	ARR	ARR		Wang,R	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	70229	IND	6U	ARR	ARR	ARR		Whitefield,P
	0.0- 6.0	72153	IND	6V	ARR	ARR	ARR		Winiarz,J
	0.0- 6.0	72212	IND	6W	ARR	ARR	ARR		Woelk,K
	0.0- 6.0	73121	IND	6X	ARR	ARR	ARR		
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	70210	LAB	3A	Th	08:00 - 11:50 am	SHNK	00303	Schuman,T
			LAB	3A	T	09:00 - 11:50 am	SHNK	00303	
4420 Chemical Kinetics II	3.0- 3.0	72549	LEC	1A	TTh	11:00 - 12:15 pm	NOR	00208	Dawes,R
Prerequisites: Chem 3420.									
4510 Instrumental Methods Of Chemical Analysis	4.0- 4.0		LEC	1A	TTh	06:00 - 07:15 pm	SHNK	00305	Kapila,S
Prerequisites: Chem 3510 and Chem 3430.	4.0- 4.0	72054	LAB	3A	T	02:00 - 04:50 pm	ARR		Kapila,S
4610 General Biochemistry	3.0- 3.0	72217	LEC	1A	TTh	11:00 - 12:15 pm	BERTELS	00B12A	Wang,R
Prerequisite: Chem 2220.									
4620 Metabolism	3.0- 3.0	70212	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00316	Ercal,N
Prerequisite: Chem 4610.									
5100 Laboratory Safety & Hazardous Materials	1.0- 1.0	72542	LEC	1A	MTWThF	08:00 - 08:50 am	SHNK	000G3	Whitefield,P
Prerequisites: Graduate standing.									
5420 Elemental Quantum Chemistry	3.0- 3.0	72658	LEC	1A	MWF	08:00 - 08:50 am	SHNK	00305	Mochalin,V
Prerequisites: Math 2222; Physics 2135 or Physics 2111.									
5430 Advanced Chemical Kinetics	3.0- 3.0	72550	LEC	1A	TTh	11:00 - 12:15 pm	NOR	00208	Dawes,R
Prerequisites: Chem 3430.									
5510 Introduction to Chemical Analysis	4.0- 4.0		LEC	1A	TTh	06:00 - 07:15 pm	SHNK	00305	Kapila,S
Prerequisites: Chem 1100, Chem 2510, Chem 2220, Chem 3430.	4.0- 4.0	72215	LAB	3A	T	02:00 - 04:50 pm	ARR		Kapila,S
5610 Biochemistry	3.0- 3.0	72218	LEC	1A	TTh	11:00 - 12:15 pm	BERTELS	00B12A	Wang,R
Prerequisite: Chem 2220.									
5620 Biochemical Metabolism	3.0- 3.0	72216	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00316	Ercal,N
Prerequisite: Chem 4610 or 5610.									
6010 Seminar	1.0- 1.0	70230	RSD	2A	M	03:30 - 06:00 pm	SHNK	00126	Long,G
6040 Oral Examination	0.0- 0.0	70250	IND	6A	ARR	ARR	ARR		Whitefield,P
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	70251	IND	6A	ARR	ARR	ARR		Whitefield,P
Doctoral students only. Graduate Office permission required.									
6099 Research	0.0-15.0	70231	IND	6A	ARR	ARR	ARR		Choudhury,A
Prerequisite: Must meet departmental requirements for instruction in laboratory safety. Consent of instructor required.	0.0-15.0	70232	IND	6B	ARR	ARR	ARR		Collier,H
	0.0-15.0	70233	IND	6C	ARR	ARR	ARR		Dawes,R
	0.0-15.0	70234	IND	6D	ARR	ARR	ARR		Ercal,N
	0.0-15.0	70235	IND	6E	ARR	ARR	ARR		Grubbs,G
	0.0-15.0	70236	IND	6F	ARR	ARR	ARR		Kapila,S
	0.0-15.0	70237	IND	6G	ARR	ARR	ARR		Leventis,N
	0.0-15.0	70238	IND	6H	ARR	ARR	ARR		Long,G
	0.0-15.0	70239	IND	6J	ARR	ARR	ARR		Ma,Y
	0.0-15.0	70240	IND	6K	ARR	ARR	ARR		Mochalin,V
	0.0-15.0	70241	IND	6L	ARR	ARR	ARR		Nam,P
	0.0-15.0	71480	IND	6M	ARR	ARR	ARR		Nath,M
	0.0-15.0	70242	IND	6N	ARR	ARR	ARR		Reddy,V
	0.0-15.0	70243	IND	6P	ARR	ARR	ARR		Schuman,T
	0.0-15.0	70244	IND	6Q	ARR	ARR	ARR		Shi,H
	0.0-15.0	70245	IND	6R	ARR	ARR	ARR		Sotiriou-Leventis,C
	0.0-15.0	70246	IND	6T	ARR	ARR	ARR		Stavropoulos,P
	0.0-15.0	70247	IND	6U	ARR	ARR	ARR		Switzer,J
	0.0-15.0	70248	IND	6V	ARR	ARR	ARR		Van De Mark,M
	0.0-15.0	70249	IND	6W	ARR	ARR	ARR		Wang,R
	0.0-15.0	71815	IND	6X	ARR	ARR	ARR		Whitefield,P
	0.0-15.0	71884	IND	6Y	ARR	ARR	ARR		Winiarz,J
	0.0-15.0	72154	IND	6Z	ARR	ARR	ARR		Woelk,K
	0.0-15.0	72219	IND	6AA	ARR	ARR	ARR		
6220 Advanced Synthetic Organic Chemistry	3.0- 3.0	73600	LEC	1A	TTh	09:30 - 10:45 am	CH	00103	Sotiriou-Leventis,C
Prerequisite: Chem 4210 or Chem 4220.									

6330	Nanomaterials Synthesis, Properties and Applications Prerequisite: Chem 4310.	3.0- 3.0	73510	LEC	1A	WF	04:00 - 05:15 pm	SHNK	00305	Nath,M
6555	Principles And Applications Of Mass Spectrometry Prerequisite: Chem 4510 or equivalent.	3.0- 3.0	72661	LEC	1A	WF	06:00 - 07:15 pm	SHNK	00305	Kapila,S

Civil Engineering

2002	Cooperative Engineering Training	1.0- 3.0	70258	IND	6A	ARR	ARR	ARR		Burken,J
2003	Engineering Communications and Computations (Co-listed with Arch Eng 2003)	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	BCH	00120	Schonberg,W
				Class will meet for two 75 minute lecture periods when labs do not meet.						
				See 'Notes'-Additional Meeting						
		3.0- 3.0	70257	LAB	3A	Th	01:00 - 02:50 pm	BCH	00115	Schonberg,W
		3.0- 3.0	71189	LAB	3B	Th	03:00 - 04:50 pm	BCH	00115	Schonberg,W
2200	Statics Prerequisites: Physics 1135 or Physics 1111 with a grade of "C" or better; Math 1215 or Math 1221 with a grade of "C" or better; preceded or accompanied by Math 2222. Students in Civ Eng 2200 are scheduled for group exams from 5:00-6:00pm on Wednesdays, February 8th; March 8th; April 12th; and May 3rd.	3.0- 3.0	70077	LEC	1A	MWF	09:00 - 09:50 am	IDE	00202	Abbott,D
				See 'Notes' for Evening Exams						
		3.0- 3.0	70078	LEC	1B	MWF	10:00 - 10:50 am	IDE	00202	Abbott,D
				See 'Notes' for Evening Exams						
		3.0- 3.0	70079	LEC	1C	MWF	11:00 - 11:50 am	IDE	00202	Abbott,D
				See 'Notes' for Evening Exams						
		3.0- 3.0	70080	LEC	1D	TTh	09:30 - 10:45 am	H-SS	000G5	Koen,M
				See 'Notes' for Evening Exams						
		3.0- 3.0	70081	LEC	1E	TTh	11:00 - 12:15 pm	H-SS	000G5	Koen,M
				See 'Notes' for Evening Exams						
		3.0- 3.0	70082	LEC	1F	TTh	02:00 - 03:15 pm	H-SS	000G5	Koen,M
				See 'Notes' for Evening Exams						
				LEC	1F	ARR	ARR	ARR		
				See 'Notes' for Evening Exams						
2210	Mechanics Of Materials Prerequisite: Civ Eng 2200 with grade of "C" or better.	3.0- 3.0	70084	LEC	1A	MWF	10:00 - 10:50 am	BCH	00120	Philpot,T
				Exams for Civ Eng 2210 1A will be given from 5:00 pm to 6:20 pm on Mondays: Feb. 6, Mar. 6, Apr. 3, and May 1.						
				See 'Notes' for Evening Exams						
		3.0- 3.0	70083	LEC	1B	MWF	11:00 - 11:50 am	BCH	00120	Philpot,T
				Exams for Civ Eng 2210 1B will be given from 5:00 pm to 6:20 pm on Mondays: Feb. 6, Mar. 6, Apr. 3, and May 1.						
				See 'Notes' for Evening Exams						
		3.0- 3.0	71350	LEC	1C	TTh	09:30 - 10:45 am	BCH	00121	Libre,N
				Exams for Civ Eng 2210 1C will be given from 5:00pm to 6:30pm on Feb. 9, Mar. 9, Apr. 6 and May 2.						
		3.0- 3.0	71795	LEC	1D	TTh	11:00 - 12:15 pm	BCH	00101	Libre,N
				Exams for Civ Eng 2210 1D will be given from 5:00pm to 6:30pm on Feb. 9, Mar. 9, Apr. 6 and May 2.						
		3.0- 3.0	72157	LEC	1E	TTh	12:30 - 01:45 pm	BCH	00124	Libre,N
				Exams for Civ Eng 2210 1E will be given from 5:00pm to 6:30pm on Feb. 9, Mar. 9, Apr. 6 and May 2.						
		3.0- 3.0	72236	LEC	1F	ARR	ARR	ARR		Thomas,J
				This section is for co-op students only. Exams must be taken at a college testing center in the co-op area. All fees associated with the testing center are the student's responsibility.						
2211	Materials Testing Prerequisite: Preceded or accompanied by Civ Eng 2210.	1.0- 1.0	70085	LAB	3A	M	01:00 - 01:50 pm	IDE	000G6	Libre,N
				LAB	3A	M	02:00 - 02:50 pm	IDE	000G4A	
		1.0- 1.0	70086	LAB	3B	M	03:00 - 03:50 pm	IDE	000G6	Libre,N
				LAB	3B	M	04:00 - 04:50 pm	IDE	000G4A	
		1.0- 1.0	70087	LAB	3C	M	05:00 - 05:50 pm	IDE	000G6	Libre,N
				LAB	3C	M	06:00 - 06:50 pm	IDE	000G4A	
		1.0- 1.0	70088	LAB	3D	T	01:00 - 01:50 pm	IDE	000G6	Libre,N
				LAB	3D	T	02:00 - 02:50 pm	IDE	00202	
		1.0- 1.0	70089	LAB	3E	T	03:00 - 03:50 pm	IDE	000G6	Libre,N
				LAB	3E	T	04:00 - 04:50 pm	IDE	000G4A	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	1.0- 1.0	72151	LAB	3F	T	05:00 - 05:50 pm	IDE	000G6	Libre,N	
			LAB	3F	T	06:00 - 06:50 pm	IDE	000G4A		
	1.0- 1.0	70090	LAB	3G	W	01:00 - 01:50 pm	IDE	000G6	Libre,N	
			LAB	3G	W	02:00 - 02:50 pm	IDE	000G4A		
	1.0- 1.0	70091	LAB	3H	W	03:00 - 03:50 pm	IDE	000G6	Libre,N	
			LAB	3H	W	04:00 - 04:50 pm	IDE	000G4A		
	1.0- 1.0	71382	LAB	3J	Th	01:00 - 01:50 pm	IDE	000G6	Libre,N	
			LAB	3J	Th	02:00 - 02:50 pm	IDE	00202		
	1.0- 1.0	72152	LAB	3K	Th	03:00 - 03:50 pm	IDE	000G6	Libre,N	
			LAB	3K	Th	04:00 - 04:50 pm	IDE	00202		
2401	Fundamentals Of Surveying		LEC	1A	MW	08:00 - 08:50 am	BCH	00120	Elgin,R	
	Prerequisite: Preceded or accompanied by Math 1214 (or 1208).	3.0- 3.0	70253	LAB	3A	M	01:00 - 03:50 pm	BCH	00318	Elgin,R
		3.0- 3.0	70254	LAB	3B	T	12:30 - 03:20 pm	BCH	00318	Elgin,R
		3.0- 3.0	70255	LAB	3C	W	01:00 - 03:50 pm	BCH	00318	Elgin,R
2601	Fundamentals Of Environmental Engineering And Science		LEC	1A	MW	08:00 - 08:50 am	TMH	00199	Oerther,D	
	(Co-listed with Env Eng 2601)	3.0- 3.0	70280	LAB	3A1	M	01:00 - 03:50 pm	BCH	00209	Oerther,D
		3.0- 3.0	70281	LAB	3A2	T	01:00 - 03:50 pm	BCH	00209	Oerther,D
		3.0- 3.0	71714	LAB	3B1	W	01:00 - 03:50 pm	BCH	00209	Oerther,D
		3.0- 3.0	72814	LAB	3B2	Th	01:00 - 03:50 pm	BCH	00209	Oerther,D
2602	Biological Fundamentals Of Environmental Engineering		LEC	1A	MWF	11:00 - 11:50 am	BCH	00216	Fitch,M	
	Prerequisites: Bio Sci 1113 and preceded or accompanied by Civ/Env Eng 2601. (Co-listed with Env Eng 2602)	3.0- 3.0	72238	LAB	3A	M	01:00 - 03:50 pm	BCH	00216	Fitch,M
3116	Construction Materials, Properties And Testing		LEC	1A	MWF	08:00 - 08:50 am	BCH	00110	Feys,D	
	Prerequisites: Civ Eng 2211 or Min Eng 3812; Civ Eng 3715 or both Geo Eng 1150 and Min Eng 3412.	3.0- 3.0	73573	LAB	1B	MWF	10:00 - 10:50 am	BCH	00110	Ma,H
		3.0- 3.0	73575	LAB	1B	MWF	10:00 - 10:50 am	BCH	00110	Ma,H
		0.0- 0.0	73574	LAB	3A	T	01:00 - 04:30 pm	BCH	00110	
		0.0- 0.0	73576	LAB	3B	Th	01:00 - 04:30 pm	BCH	00110	
3201	Structural Analysis I		LEC	1A	TTh	09:30 - 10:20 am	BCH	00318	Wu,C	
		3.0- 3.0	70269	LAB	3A	Th	12:30 - 03:15 pm	BCH	00318	Wu,C
3210	Structural Design in Metals		LEC	1A	TTh	09:30 - 10:20 am	BCH	00124	Philpot,T	
	Prerequisite: Civ Eng 3201 with a grade of "C" or better. (Co-listed with Arch Eng 3210)	3.0- 3.0	70271	LAB	3A	TTh	11:00 - 12:15 pm	BCH	00124	Philpot,T
3220	Reinforced Concrete Design		LEC	1A	MW	10:00 - 10:50 am	BCH	00318	Sneed,L	
	Prerequisite: Civ Eng 3201 with grade of "C" or better. (Co-listed with Arch Eng 3220)	3.0- 3.0	70273	LAB	3A	Th	01:00 - 03:50 pm	BCH	00314	Sneed,L
3330	Engineering Fluid Mechanics		LEC	1A	MWF	09:00 - 09:50 am	BCH	00315	Mendoza,C	
	Prerequisites: IDE 2350 or IDE 2340, and MATH 3304, each with a grade of "C" or better.	3.0- 3.0	71840	LEC	1B	MWF	09:00 - 09:50 am	BCH	00318	Bayless,J
3334	Water Resources Engineering		LEC	1A	MWF	11:00 - 11:50 am	BCH	00318	Holmes,R	
	Prerequisites: Civ Eng 3330 and Stat 3113 with grades of "C" or better.	4.0- 4.0	71321	LAB	3A	M	01:00 - 03:50 pm	BCH	00316	Ethi Rajan,P
		4.0- 4.0	70276	LAB	3B	F	01:00 - 03:50 pm	BCH	00316	Ethi Rajan,P
3500	Transportation Engineering		LEC	1A	TTh	09:30 - 10:20 am	BCH	00315	Sneed,M	
	Prerequisites: Civ Eng 2401 and Civ Eng 2003.	3.0- 3.0	70260	LAB	3A	W	02:00 - 03:50 pm	BCH	00115	Meng,W
3715	Fundamentals of Geotechnical Engineering		LEC	1A	MW	12:00 - 12:50 pm	BCH	00120	Deng,W	
	Prerequisite: Geo Eng 1150 or Arch Eng 2103; Civ Eng 2210; and preceded or accompanied by Civ Eng 3330.	3.0- 3.0	70262	LAB	3A	F	12:00 - 12:50 pm	BCH	00120	Cao,J
		3.0- 3.0	71217	LAB	3A	M	01:00 - 02:50 pm	CE	00114	
		3.0- 3.0	71217	LAB	3B	F	12:00 - 12:50 pm	BCH	00120	Cao,J
				LAB	3B	M	03:00 - 04:50 pm	CE	00114	
		3.0- 3.0	70263	LAB	3C	F	12:00 - 12:50 pm	BCH	00120	Cao,J
				LAB	3C	T	01:00 - 02:50 pm	CE	00114	
		3.0- 3.0	72123	LAB	3E	F	12:00 - 12:50 pm	BCH	00120	Wang,S
				LAB	3E	W	01:00 - 02:50 pm	CE	00114	
		3.0- 3.0	72124	LAB	3F	F	12:00 - 12:50 pm	BCH	00120	Wang,S
				LAB	3F	W	04:00 - 05:50 pm	CE	00114	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3842 Fundamentals of Building Systems Prerequisites: Physics 2135, Math 2222, and Junior Standing.	3.0- 3.0	70277	LEC	1A	TTh	09:30 - 10:45 am	TMH	00260	Gillis,W
4097 Senior Design Project Prerequisite: Civ Eng 4448 or Arch Eng 4448. (Co-listed with Arch Eng 4097 and Env Eng 4097)	3.0- 3.0	70282	LEC	1A	M	01:00 - 03:50 pm	BCH	00120	Showalter,W
4099 Undergraduate Research	0.0- 6.0	71470	IND	6A	ARR	ARR	ARR		Baur,S
	0.0- 6.0	70296	IND	6B	ARR	ARR	ARR		Bayless,J
	0.0- 6.0	70297	IND	6C	ARR	ARR	ARR		Burken,J
	0.0- 6.0	70298	IND	6D	ARR	ARR	ARR		Chen,G
	0.0- 6.0	71111	IND	6E	ARR	ARR	ARR		Deng,W
	0.0- 6.0	70299	IND	6F	ARR	ARR	ARR		ElGawady,M
	0.0- 6.0	70300	IND	6G	ARR	ARR	ARR		Feys,D
	0.0- 6.0	70301	IND	6H	ARR	ARR	ARR		Fitch,M
	0.0- 6.0	71191	IND	6J	ARR	ARR	ARR		Gillis,W
	0.0- 6.0	70295	IND	6K	ARR	ARR	ARR		Khayat,K
	0.0- 6.0	70302	IND	6L	ARR	ARR	ARR		Ma,H
	0.0- 6.0	70303	IND	6M	ARR	ARR	ARR		Mendoza,C
	0.0- 6.0	70304	IND	6N	ARR	ARR	ARR		Morrison,G
	0.0- 6.0	70305	IND	6P	ARR	ARR	ARR		Myers,J
	0.0- 6.0	70306	IND	6Q	ARR	ARR	ARR		Oerther,D
	0.0- 6.0	70307	IND	6R	ARR	ARR	ARR		Richardson,D
	0.0- 6.0	70308	IND	6T	ARR	ARR	ARR		Schonberg,W
	0.0- 6.0	70309	IND	6U	ARR	ARR	ARR		Showalter,W
	0.0- 6.0	71977	IND	6V	ARR	ARR	ARR		Sneed,L
	0.0- 6.0	72380	IND	6W	ARR	ARR	ARR		Wang,J
	0.0- 6.0	73194	IND	6X	ARR	ARR	ARR		Yan,G
	0.0- 6.0	73433	IND	6Y	ARR	ARR	ARR		Zhang,X
4448 Fundamentals Of Contracts And Construction Engineering Prerequisite: Senior Standing. (Co-listed with Arch Eng 4448)	3.0- 3.0	70278	LEC	1A	TTh	08:00 - 09:15 am	BCH	00120	Showalter,W
4729 Foundation Engineering Prerequisite: Civ Eng 3715.	3.0- 3.0	71254	LEC	1A	TTh	03:30 - 04:45 pm	BCH	00124	Stephenson,R
5000 Special Problems	0.0- 6.0	70283	IND	6A	ARR	ARR	ARR		Baur,S
	0.0- 6.0	70284	IND	6B	ARR	ARR	ARR		Bayless,J
	0.0- 6.0	70285	IND	6C	ARR	ARR	ARR		Burken,J
	0.0- 6.0	71114	IND	6D	ARR	ARR	ARR		Chen,G
	0.0- 6.0	70286	IND	6E	ARR	ARR	ARR		Deng,W
	0.0- 6.0	70287	IND	6F	ARR	ARR	ARR		Elgin,R
	0.0- 6.0	71150	IND	6G	ARR	ARR	ARR		ElGawady,M
	0.0- 6.0	70288	IND	6H	ARR	ARR	ARR		Feys,D
	0.0- 6.0	71190	IND	6J	ARR	ARR	ARR		Fitch,M
	0.0- 6.0	71068	IND	6K	ARR	ARR	ARR		Gillis,W
	0.0- 6.0	70289	IND	6L	ARR	ARR	ARR		Khayat,K
	0.0- 6.0	70290	IND	6M	ARR	ARR	ARR		Ma,H
	0.0- 6.0	70291	IND	6N	ARR	ARR	ARR		Mendoza,C
	0.0- 6.0	70292	IND	6P	ARR	ARR	ARR		Morrison,G
	0.0- 6.0	70293	IND	6Q	ARR	ARR	ARR		Oerther,D
	0.0- 6.0	70294	IND	6R	ARR	ARR	ARR		Schonberg,W
	0.0- 6.0	72382	IND	6T	ARR	ARR	ARR		Showalter,W
	0.0- 6.0	72383	IND	6U	ARR	ARR	ARR		Sneed,L
	0.0- 6.0	72567	IND	6V	ARR	ARR	ARR		Wu,C
	0.0- 6.0	73434	IND	6W	ARR	ARR	ARR		Yan,G
	0.0- 6.0	73435	IND	6X	ARR	ARR	ARR		Zhang,X
5001 Special Topics	3.0- 3.0	73439	LEC	1A	TTh	12:30 - 01:45 pm	LIB	000G14	Burken,J
									Transportation Eng Legal Issue
									UM Shared Course-Secondary
	3.0- 3.0	73598	LEC	1B	TTh	12:30 - 01:45 pm	BCH	00215	Oerther,D
									STEAM Diplomacy
									Prerequisite: Junior or Senior standing.
5156 Concrete Pavement Design Prerequisite: Civ Eng 3116 with a grade of "C" or better.	3.0- 3.0	73436	LEC	1A	TTh	09:30 - 10:45 am	BCH	00110	Richardson,D

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5231 Infrastructure Strengthening with Composites Prerequisites: Civ Eng / Arch Eng 3201, Civ Eng / Arch Eng 3220. (Co-listed with Arch Eng 5231)	3.0- 3.0	73196	LEC	1A	TTh	08:00 - 09:15 am	BCH	00213	Myers,J
5250 Air Transportation Prerequisite: Civ Eng 3500 with a grade of "C" or better.	3.0- 3.0 3.0- 3.0	71304	LEC LAB	1A 3A	Th Th	07:00 - 08:00 pm 08:00 - 09:30 pm	CS CS	00209 00209	Trueblood,M Trueblood,M
5270 Structural Masonry Design Prerequisites: Arch Eng 3201 or Civ Eng 3201. (Co-listed with Arch Eng 5270)	3.0- 3.0	73198	LEC	1A	Th	04:00 - 06:30 pm	BERTELS	00B12A	McMillian,D
5331 Hydraulics Of Open Channels Prerequisite: Civ Eng 3330 with a grade of "C" or better.	3.0- 3.0	73197	LEC	1A	MWF	08:00 - 08:50 am	BCH	00216	Mendoza,C
5338 Hydrologic Engineering Prerequisite: Civ Eng 3334 with a grade of "C" or better.	3.0- 3.0	72134	LEC	1A	TTh	08:00 - 09:15 am	LIB	000G14	Pierson,M
5442 Construction Planning and Scheduling Strategies Prerequisite: Civ Eng or Arch Eng 4448. (Co-listed with Arch Eng 5442)	3.0- 3.0	71514	LEC	1A	M	04:00 - 06:30 pm	BCH	00121	Bodapati,S
5445 Construction Methods Prerequisite: Civ Eng 4448 with a grade of "C" or better. (Co-listed with Arch Eng 5445)	3.0- 3.0	71358	LEC	1A	W	04:00 - 06:30 pm	CS	00209	Augenstein,A
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	71713	LEC	1A	MWF	09:00 - 09:50 am	TMH	00260	Scott-Showalter,P
5449 Engineering and Construction Contract Specifications Prerequisite: Civ Eng 4448 with a grade of "C" or better. (Co-listed with Arch Eng 5449)	3.0- 3.0	72106	LEC	1A	MWF	11:00 - 11:50 am	BCH	00213	Scott-Showalter,P
5619 Environmental Engineering Design Prerequisite: Civ Eng 3615 or Env Eng 3615. (Co-listed with Env Eng 5619)	3.0- 3.0 3.0- 3.0	72022	LEC LAB	1A 3A	T Th	04:00 - 04:50 pm 04:00 - 04:50 pm 05:00 - 05:50 pm	BCH BCH BCH	00216 00216 00209	Campbell,K Campbell,K
5640 Environmental Law And Regulations (Co-listed with Env Eng 5640)	3.0- 3.0	71426	LEC	1A	M	07:00 - 09:30 pm	BCH	00213	Flechas,F
5650 Public Health Engineering Prerequisite: Civ Eng 2601 with a grade of "C" or better. (Co-listed with Env Eng 5650)	3.0- 3.0	72817	LEC	1A	TTh	11:00 - 12:15 pm	LIB	000G14	Oerther,D
5662 Air Pollution Control Methods Prerequisite: Civ Eng 3330; or graduate standing. (Co-listed with Env Eng 5662)	3.0- 3.0	72271	LEC	1A	TTh	08:00 - 09:15 am	BCH	00209	Morrison,G
5729 Foundation Engineering II Prerequisites: Civ Eng 4729 with a grade of "C" or better. (Co-listed with Arch Eng 5729)	3.0- 3.0	71053	LEC	1A	CANCELLED				
5744 Geosynthetics in Engineering Prerequisite: Civ Eng 3715 with grade of "C" or better.	3.0- 3.0	73545	LEC	1A	W	04:00 - 06:30 pm	BCH	00213	
6000 Special Problems	0.0- 6.0	70310	IND	6A	ARR	ARR	ARR		Baur,S
	0.0- 6.0	71472	IND	6B	ARR	ARR	ARR		Bayless,J
	0.0- 6.0	70311	IND	6C	ARR	ARR	ARR		Burken,J
	0.0- 6.0	70312	IND	6D	ARR	ARR	ARR		Chen,G
	0.0- 6.0	71112	IND	6E	ARR	ARR	ARR		Deng,W
	0.0- 6.0	70313	IND	6F	ARR	ARR	ARR		ElGawady,M
	0.0- 6.0	70314	IND	6G	ARR	ARR	ARR		Feys,D
	0.0- 6.0	70315	IND	6H	ARR	ARR	ARR		Fitch,M
	0.0- 6.0	70316	IND	6J	ARR	ARR	ARR		Gillis,W
	0.0- 6.0	71192	IND	6K	ARR	ARR	ARR		Khayat,K
	0.0- 6.0	71070	IND	6L	ARR	ARR	ARR		Ma,H
	0.0- 6.0	70317	IND	6M	ARR	ARR	ARR		Mendoza,C

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	70318	IND	6N	ARR	ARR	ARR		Morrison,G
	0.0- 6.0	70319	IND	6P	ARR	ARR	ARR		Myers,J
	0.0- 6.0	70320	IND	6Q	ARR	ARR	ARR		Oerther,D
	0.0- 6.0	70321	IND	6R	ARR	ARR	ARR		Richardson,D
	0.0- 6.0	70322	IND	6T	ARR	ARR	ARR		Schonberg,W
	0.0- 6.0	70323	IND	6U	ARR	ARR	ARR		Showalter,W
	0.0- 6.0	71978	IND	6V	ARR	ARR	ARR		Sneed,L
	0.0- 6.0	72384	IND	6W	ARR	ARR	ARR		Wang,J
	0.0- 6.0	72385	IND	6X	ARR	ARR	ARR		Wu,C
	0.0- 6.0	73098	IND	6Y	ARR	ARR	ARR		Yan,G
	0.0- 6.0	73437	IND	6Z	ARR	ARR	ARR		Zhang,X
6001 Special Topics	3.0- 3.0	73440	LEC	1A	T	04:00 - 06:30 pm	ARR		Khayat,K
									Concrete Durability and Repair Prerequisites: Civ Eng 5113 or equivalent; or consent of the instructor with Graduate standing. (Co-listed with Arch Eng 6001)
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	70338	IND	6A	ARR	ARR	ARR		Burken,J
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70339	IND	6A	ARR	ARR	ARR		Burken,J
6099 Research	0.0-15.0	71380	IND	6A	ARR	ARR	ARR		Baur,S
	0.0-15.0	70325	IND	6B	ARR	ARR	ARR		Burken,J
	0.0-15.0	70326	IND	6C	ARR	ARR	ARR		Chen,G
	0.0-15.0	71113	IND	6D	ARR	ARR	ARR		Deng,W
	0.0-15.0	70327	IND	6E	ARR	ARR	ARR		ElGawady,M
	0.0-15.0	70328	IND	6F	ARR	ARR	ARR		Feys,D
	0.0-15.0	70329	IND	6G	ARR	ARR	ARR		Fitch,M
	0.0-15.0	70330	IND	6H	ARR	ARR	ARR		Gillis,W
	0.0-15.0	71193	IND	6J	ARR	ARR	ARR		Khayat,K
	0.0-15.0	70324	IND	6K	ARR	ARR	ARR		Luna,R
	0.0-15.0	70331	IND	6L	ARR	ARR	ARR		Ma,H
	0.0-15.0	70332	IND	6M	ARR	ARR	ARR		Mendoza,C
	0.0-15.0	70333	IND	6N	ARR	ARR	ARR		Morrison,G
	0.0-15.0	70334	IND	6P	ARR	ARR	ARR		Myers,J
	0.0-15.0	70335	IND	6Q	ARR	ARR	ARR		Oerther,D
	0.0-15.0	70336	IND	6R	ARR	ARR	ARR		Richardson,D
	0.0-15.0	70337	IND	6T	ARR	ARR	ARR		Schonberg,W
	0.0-15.0	71961	IND	6U	ARR	ARR	ARR		Showalter,W
	0.0-15.0	72386	IND	6V	ARR	ARR	ARR		Sneed,L
	0.0-15.0	72387	IND	6W	ARR	ARR	ARR		Wang,J
	0.0-15.0	72531	IND	6X	ARR	ARR	ARR		Wu,C
	0.0-15.0	73099	IND	6Y	ARR	ARR	ARR		Yan,G
	0.0-15.0	73438	IND	6Z	ARR	ARR	ARR		Zhang,X
6206 Stochastic Theory of Structural Dynamics Prerequisites: Math 3304; Mech Eng 5307 or Civ Eng 6205, and Stat 3115.	3.0- 3.0	72373	LEC	1A	TTh	02:00 - 03:15 pm	BCH	00215	Chen,G
6211 Plastic Analysis And Design Of Metal Structures	3.0- 3.0	73195	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00260	ElGawady,M
6338 Advanced Hydrology Prerequisite: Civ Eng 3333.	3.0- 3.0	71680	LEC	1A	W	04:00 - 06:30 pm	BERTELS	00B12A	Wilson,L
6501 Transportation Planning Prerequisite: Civ Eng 5513 or consent of instructor.	3.0- 3.0	72129	LEC	1A	W	07:00 - 09:30 pm	MCNT	00130	Trueblood,M
6611 Physicochemical Operations In Environmental Engineering Systems Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Env Eng 6611 and Chem Eng 6330)	3.0- 3.0	71792	LEC	1A	TTh	09:30 - 10:45 am	BCH	00209	Wang,J

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6612 Biological Operations In Environmental Engineering Systems Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Env Eng 6612)	3.0- 3.0	71958	LEC	1A	TTh	11:00 - 12:15 pm	FUL	00107A	Fitch,M
6715 Advanced Soil Mechanics Prerequisite: Civ Eng 5715.	3.0- 3.0	72375	LEC	1A	T	07:00 - 09:30 pm	BCH	00213	Deng,W
6716 Soil Stabilization Prerequisite: Civ Eng 5715.	3.0- 3.0	72374	LEC	1A	M	07:00 - 09:30 pm	TMH	00260	

Computer Engineering

2210 Introduction to Digital Logic Prerequisite: Sophomore standing. Comp Eng 2211 is also a co-requisite for Comp Eng and Elec Eng majors.	3.0- 3.0	70347	LEC	1A	MWF	11:00 - 11:50 am	EMGT	00103	Swift,T
	3.0- 3.0	70348	LEC	1B	TTh	12:30 - 01:45 pm	EECH	00101	
	3.0- 3.0	72138	LEC	1C	TTh	09:30 - 10:45 am	CS	00205	Wunsch,D
2211 Computer Engineering Laboratory Prerequisite: Preceded or accompanied by Comp Eng 2210.	1.0- 1.0	70349	LAB	3A	M	01:00 - 02:50 pm	EECH	00209A	Wunsch,D
	1.0- 1.0	70350	LAB	3B	M	03:00 - 04:50 pm	EECH	00209A	Wunsch,D
	1.0- 1.0	71802	LAB	3C	T	10:00 - 11:50 am	EECH	00209A	Wunsch,D
	1.0- 1.0	70352	LAB	3D	T	02:30 - 04:20 pm	EECH	00209A	Wunsch,D
	1.0- 1.0	72055	LAB	3E	T	06:10 - 08:00 pm	EECH	00209A	Wunsch,D
	1.0- 1.0	70353	LAB	3F	W	01:00 - 02:50 pm	EECH	00209A	Wunsch,D
	1.0- 1.0	70354	LAB	3G	W	03:00 - 04:50 pm	EECH	00209A	Wunsch,D
	1.0- 1.0	70351	LAB	3H	Th	10:00 - 11:50 am	EECH	00209A	Wunsch,D
	1.0- 1.0	72669	LAB	3J	Th	06:10 - 08:00 pm	EECH	00209A	Wunsch,D
3002 Cooperative Engineering Training Prerequisite: Consent of the Electrical and Computer Engineering Department required.	1.0- 1.0	70355	IND	6A	ARR	ARR	ARR		Stanley,R
3110 Computer Organization and Design Prerequisites: COMP ENG 2210; preceded or accompanied by COMP ENG 3150.	3.0- 3.0	72056	LEC	1A	MWF	02:00 - 02:50 pm	TMH	00295	Choi,M
3150 Introduction to Microcontrollers and Embedded System Design Prerequisites: COMP ENG 2210 and COMP SCI 1570 (or programming equivalent) each with grade of "C" or better.	3.0- 3.0	70356	LEC	1A	TTh	09:30 - 10:45 am	EECH	00G31	Stanley,R
	3.0- 3.0	70357	LEC	1B	MWF	02:00 - 02:50 pm	EMGT	00103	Kaur,A
3151 Digital Engineering Lab II Prerequisites: Comp Eng 2210, Comp Eng 2211, and Comp Sci 1570 (or programming equivalent) each with grade of "C" or better. Preceded or accompanied by Comp Eng 3150. Class meets in EECH 106/107 first half of semester and in EECH 290A for the remainder.	1.0- 1.0	71803	LAB	3A	M	08:00 - 08:50 am	EE	00106	Stanley,R
									Communication Emphasized See 'Notes' for Class Schedule
			LAB	3A	M	09:00 - 09:50 am	EECH	00209A	
									Communication Emphasized See 'Notes' for Class Schedule
	1.0- 1.0	71137	LAB	3B	M	10:00 - 10:50 am	EE	00106	
									Communication Emphasized
			LAB	3B	M	11:00 - 11:50 am	EECH	00209A	Stanley,R
									Communication Emphasized
	1.0- 1.0	71201	LAB	3C	M	06:10 - 07:00 pm	EE	00106	Stanley,R
									Communication Emphasized
			LAB	3C	M	07:00 - 07:50 pm	EECH	00209A	
									Communication Emphasized
	1.0- 1.0	72028	LAB	3D	W	06:10 - 07:00 pm	EECH	00107	Stanley,R
									Communication Emphasized
			LAB	3D	W	07:00 - 07:50 pm	EECH	00209A	
									Communication Emphasized
	1.0- 1.0	73272	LAB	3E	F	06:10 - 07:00 pm	EE	00106	Stanley,R
									Communication Emphasized

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				LAB 3E	F	07:00 - 07:50 pm	EECH	00209A		
				Communication Emphasized						
4000 Special Problems	1.0- 6.0	71036	IND	6B	ARR	ARR	ARR			
4096 Computer Engineering Senior Project I	1.0- 1.0		RSD	2A	M	12:00 - 12:50 pm	EECH	00G31	Cutitaru,M	
Prerequisites: Comp Eng 2210, either	1.0- 1.0		RSD	2B	M	12:00 - 12:50 pm	EECH	00G31	Cutitaru,M	
Econ 1100 or Econ 1200, either English	1.0- 1.0	70364	LAB	3A	T	03:30 - 04:20 pm	EECH	00101	Cutitaru,M	
3560 or English 1160, Comp Eng 3150,	1.0- 1.0	70365	LAB	3B	W	03:00 - 03:50 pm	EECH	00104	Pommerenke,D	
Comp Eng 3151, Comp Eng 3110, and Elec										
Eng 2200.										
4097 Computer Engineering Senior Project II	3.0- 3.0	70366	LAB	3A	MW	03:00 - 04:50 pm	EECH	00102	Cutitaru,M	
Prerequisites: Comp Eng 4096 with a	3.0- 3.0	70367	LAB	3B	TTh	03:00 - 04:50 pm	EECH	00102	Zawodniok,M	
grade of "C" or better, Stat 3117 or										
Stat 3115 or Stat 5643, and Sp&M S 1185.										
4099 Undergraduate Research	1.0- 6.0	70361	IND	6A	ARR	ARR	ARR		Sedighsarvestani,S	
	1.0- 6.0	70362	IND	6B	ARR	ARR	ARR		Wunsch,D	
	1.0- 6.0	73596	IND	6C	ARR	ARR	ARR		Watkins,S	
5000 Special Problems	1.0- 6.0	72548	IND	6A	ARR	ARR	ARR		Fan,J	
5040 Oral Examination	0.0- 0.0	71931	IND	6A	ARR	ARR	ARR			
5099 Special Research And Thesis	1.0-15.0	70369	IND	6A	ARR	ARR	ARR		Acar,L	
Prerequisite: Consent of the instructor	1.0-15.0	70370	IND	6B	ARR	ARR	ARR		Beetner,D	
required.	1.0-15.0	70371	IND	6C	ARR	ARR	ARR		Cetinkaya,E	
	1.0-15.0	70372	IND	6D	ARR	ARR	ARR		Choi,M	
	1.0-15.0	71400	IND	6E	ARR	ARR	ARR		Fan,J	
	1.0-15.0	70378	IND	6F	ARR	ARR	ARR		Kim,C	
	1.0-15.0	70373	IND	6G	ARR	ARR	ARR		McMillin,B	
	1.0-15.0	70374	IND	6H	ARR	ARR	ARR		Moss,R	
	1.0-15.0	70375	IND	6J	ARR	ARR	ARR		Sarangapani,J	
	1.0-15.0	70376	IND	6K	ARR	ARR	ARR		Sedighsarvestani,S	
	1.0-15.0	70377	IND	6L	ARR	ARR	ARR		Shi,Y	
	1.0-15.0	71904	IND	6N	ARR	ARR	ARR		Stanley,R	
	1.0-15.0	71913	IND	6P	ARR	ARR	ARR		Watkins,S	
	1.0-15.0	71918	IND	6Q	ARR	ARR	ARR		Wu,C	
	1.0-15.0	72036	IND	6R	ARR	ARR	ARR		Wunsch,D	
	1.0-15.0	72445	IND	6T	ARR	ARR	ARR		Zawodniok,M	
	1.0-15.0	72504	IND	6U	ARR	ARR	ARR			
5110 Principles of Computer Architecture	3.0- 3.0	72260	LEC	1A	TTh	02:00 - 03:15 pm	EECH	00101	Cutitaru,M	
Prerequisite: Comp Eng 3110.										
5130 Advanced Microcomputer System Design	3.0- 3.0	73273	LEC	1A	Th	07:00 - 09:30 pm	EECH	00103	Hanna,W	
Prerequisites: COMP ENG 5110.										
5151 Digital Systems Design Laboratory	3.0- 3.0		LEC	1A	TTh	09:30 - 10:45 am	EECH	00102	Younger,R	
Prerequisites: COMP ENG 3150 or 5110.	3.0- 3.0	70359	LAB	3A	ARR	ARR	ARR		Younger,R	
5170 Real-Time Systems	3.0- 3.0	72057	LEC	1A	MWF	11:00 - 11:50 am	TMH	00260	Zawodniok,M	
Prerequisites: COMP ENG 3150 or COMP SCI										
3800.										
5220 Digital System Modeling	3.0- 3.0	70360	LEC	1A	MWF	01:00 - 01:50 pm	EECH	00239	Cutitaru,M	
Prerequisite: Comp Eng 2210 with a grade										
of "C" or better.										
5410 Introduction to Computer Communication	3.0- 3.0	71233	LEC	1A	TTh	11:00 - 12:15 pm	EECH	00103	Sedighsarvestani,S	
Networks										
Prerequisites: Comp Eng 3150 or computer										
hardware competency and Stat 3117 or										
Stat 3115 or Stat 5643 or equivalent.										
5460 Machine Vision	3.0- 3.0	71656	LEC	1A	MWF	11:00 - 11:50 am	EECH	00103	Moss,R	
Prerequisites: At least one of the										
following: Elec Eng 3400, Elec Eng 3410,										
Elec Eng 3420, or prior exposure to										
Fourier Transforms and consent of the										
instructor. (Co-listed with Elec Eng										
5460)										
5620 Signal Integrity in High-Speed Digital &	3.0- 3.0	71054	LEC	1A	MWF	10:00 - 10:50 am	EECH	00103	Drewniak,J	
Mixed Signal Design										
Prerequisites: Elec Eng 3600 or Comp Eng										
3150, and Senior standing. (Co-listed										
with Elec Eng 5620)										

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5820 Mechatronics Prerequisite: Mech Eng 4479 or equivalent. (Co-listed with Mech Eng 5478, Aero Eng 5478 and Elec Eng 5870)	3.0- 3.0 3.0- 3.0		LEC LAB	1A 3A	MW F	08:00 - 08:50 am 08:00 - 08:50 am	TMH TMH	00250 00250	Krishnamurthy,K Krishnamurthy,K
6000 Special Problems Prerequisite: Consent of the instructor.	1.0- 6.0 1.0- 6.0 1.0- 6.0 1.0- 6.0 1.0- 6.0	70368 71153 71744 71999 73087	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		Choi,M Cetinkaya,E Sedighsarvestani,S Wunsch,D
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70379	IND	6A	ARR	ARR	ARR		Kim,C
6099 Special Research and Thesis Prerequisite: Consent of the instructor required.	1.0-15.0 1.0-15.0 1.0-15.0 1.0-15.0 1.0-15.0 1.0-15.0 1.0-15.0 1.0-15.0 1.0-15.0 1.0-15.0 1.0-15.0 1.0-15.0 1.0-15.0 1.0-15.0	72440 72505 72506 72507 72508 72510 72512 72513 72514 72515 72516 72517 72518 72519 72524	IND IND IND IND IND IND IND IND IND IND IND IND IND IND IND	6A 6B 6C 6D 6E 6F 6G 6H 6J 6K 6L 6M 6N 6P 6Q	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR	ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR ARR		Beetner,D Cetinkaya,E Choi,M Fan,J Kim,C Moss,R Sarangapani,J Sedighsarvestani,S Shi,Y Stanley,R Watkins,S Wu,C Wunsch,D Zawodniok,M Zoughi,R
6120 Advanced Computer Architecture II Prerequisites: COMP ENG 6110.	3.0- 3.0	73275	LEC	1A	Th	07:00 - 09:30 pm	LIB	000G14	Hanna,W
6230 Advanced VLSI Design Prerequisite: Comp Eng 5210 is required.	3.0- 3.0	71556	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00103	Beetner,D
6302 Advanced Topics in Data Mining Prerequisite: A "C" or better grade in Comp Sci 301 Introduction to Data Mining. (Co-listed with Comp Sci 6402 and Sys Eng 6216)	3.0- 3.0	73339	LEC	1A	MWF	03:00 - 03:50 pm	EECH	00239	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	73277	LEC	1A	T	07:00 - 09:30 pm	EECH	00239	Wunsch,D
6410 Modeling Complex Systems Prerequisites: Graduate Standing. (Co-listed with SYS ENG 6321)	3.0- 3.0	73215	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	73282	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	72261	LEC	1A	Th	04:00 - 06:30 pm	LIB	000G14	Cetinkaya,E

Computer Science

1001 Special Topics	1.0- 1.0	73345	LAB	3A	M	05:00 - 06:50 pm	MCNT	00114	Data Structures Laboratory Prerequisite: Preceded or accompanied by Comp Sci 1510.
	1.0- 1.0	73344	LAB	3B	W	04:00 - 05:50 pm	TMH	00251	Data Structures Laboratory Prerequisite: Preceded or accompanied by Comp Sci 1510.

CATALOG #	COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
1200	Discrete Mathematics For Computer Science	3.0- 3.0	70391	LEC	1A	MWF	11:00 - 11:50 am	CS	00203	
	Prerequisite: A "C" or better grade in Comp Sci 1570.	3.0- 3.0	71889	LEC	1B	TTh	08:00 - 09:15 am	CS	00207	Sabharwal,C
		3.0- 3.0	70390	LEC	1C	TTh	09:30 - 10:45 am	CS	00207	McMillin,B
		3.0- 3.0	72201	LEC	1D	MWF	03:00 - 03:50 pm	EMGT	00102	
1510	Data Structures	3.0- 3.0	70389	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00254	Morales,A
	Prerequisite: Grade of "C" or better in Comp Sci 1570.	3.0- 3.0	70388	LEC	1B	MWF	02:00 - 02:50 pm	TMH	00254	
		3.0- 3.0	71939	LEC	1C	MWF	10:00 - 10:50 am	MCNT	00211	
1570	Introduction To Programming	3.0- 3.0	70380	LEC	1A	MWF	09:00 - 09:50 am	CS	00216	Price,C
	Prerequisite: Accompanied by Comp Sci 1580.	COMP SCI MAJORS ONLY								
		3.0- 3.0	70381	LEC	1B	MWF	10:00 - 10:50 am	CS	00204	Price,C
		3.0- 3.0	70382	LEC	1C	MWF	11:00 - 11:50 am	CS	00216	
		3.0- 3.0	72121	LEC	1D	MWF	12:00 - 12:50 pm	CS	00203	
		3.0- 3.0	72202	LEC	1E	MWF	01:00 - 01:50 pm	CS	00203	
		3.0- 3.0	72703	LEC	1F	MWF	02:00 - 02:50 pm	CS	00203	
1580	Introduction To Programming Laboratory	1.0- 1.0	70383	LAB	3A	T	10:00 - 11:50 am	TMH	00251	
	Prerequisite: Accompanied by Comp Sci 1570.	1.0- 1.0	70384	LAB	3B	T	12:00 - 01:50 pm	CH	00105	
		1.0- 1.0	70385	LAB	3C	T	06:00 - 07:50 pm	CH	00105	
		1.0- 1.0	72122	LAB	3D	W	02:00 - 03:50 pm	TMH	00251	
		1.0- 1.0	72203	LAB	3E	W	04:00 - 05:50 pm	CH	00105	
1971	Introduction To Programming Methodology	2.0- 2.0	70386	LEC	1A	TTh	02:00 - 03:15 pm	BERTELS	00B10	Mentis,D
1972	Introduction to MATLAB Programming	2.0- 2.0	72371	LEC	1A	MW	12:00 - 12:50 pm	BERTELS	00112A	Mentis,D
	Prerequisite: Accompanied by Comp Sci 1982 and a "C" or better grade in either Math 1208 or Math 1214.	2.0- 2.0	72204	LEC	1B	MW	01:00 - 01:50 pm	BERTELS	00112B	
				LEC	1B	MW	01:00 - 01:50 pm	BERTELS	00112B	Mentis,D
1981	Programming Methodology Laboratory	1.0- 1.0	73106	LAB	3A	M	04:00 - 05:50 pm	TMH	00251	
	Prerequisite: Accompanied by Computer Science 1971.	1.0- 1.0	72029	LAB	3B	M	02:00 - 03:50 pm	TMH	00251	
1982	MATLAB Programming Laboratory	1.0- 1.0	72206	LAB	3A	T	02:00 - 03:50 pm	TMH	00251	Mentis,D
	Prerequisite: Accompanied by Comp Sci 1972.	1.0- 1.0	72205	LAB	3B	T	12:00 - 01:50 pm	TMH	00251	
		1.0- 1.0	73491	LAB	3C	T	04:00 - 05:50 pm	CH	00105	
2001	Special Topics	3.0- 3.0	73386	LEC	1A	M	04:00 - 06:30 pm	HARR	00107	Bachman,B
		Domain Exp Innov Methods (Co-listed with Econ 2001)								
2002	Cooperative Work Training	1.0- 5.0	70396	IND	6A	ARR	ARR	ARR		Das,S
2200	Theory of Computer Science	3.0- 3.0	70409	LEC	1A	MWF	10:00 - 10:50 am	CS	00203	Leopold,J
	Prerequisite: A "C" or better grade in both Comp Sci 1200 and Comp Sci 1510.	3.0- 3.0	73332	LEC	1B	MWF	11:00 - 11:50 am	FUL	00227	Leopold,J
2300	File Structures And Introduction To Database Systems	3.0- 3.0	70399	LEC	1A	MWF	12:00 - 12:50 pm	CS	00207	Hurson,A
	Prerequisite: A "C" or better grade in Comp Sci 1510.	3.0- 3.0	73104	LEC	1B	TTh	11:00 - 12:15 pm	BCH	00315	Madria,S
2500	Algorithms	3.0- 3.0	70400	LEC	1A	TTh	09:30 - 10:45 am	TMH	00250	Silvestri,S
	Prerequisite: A "C" or better grade in both Comp Sci 1200 and Comp Sci 1510; preceded by "C" or better grade in either Math 1208 or Math 1214, or accompanied by either Math 1208 or Math 1214.	3.0- 3.0	72207	LEC	1B	TTh	02:00 - 03:15 pm	BCH	00124	Silvestri,S
3001	Special Topics	3.0- 3.0		LEC	1A	W	04:00 - 06:30 pm	BCH	00317	Bachman,B
		Skill Development Prerequisite: A grade of "C" or better in Comp Sci 2001 or Econ 2001 - Domain Exploration and Innovation Methods. (Co-listed with Econ 3001)								
		3.0- 3.0	73390	LAB	3A	ARR	ARR	ARR		Bachman,B
		Skill Development Co-listed with Econ 3001)								
3100	Software Engineering I	3.0- 3.0	71246	LEC	1A	MWF	10:00 - 10:50 am	SHNK	00126	
	Prerequisite: A "C" or better grade in Comp Sci 2500 and at least Junior standing.									
3200	Introduction To Numerical Methods	3.0- 3.0	70397	LEC	1A	TTh	09:30 - 10:45 am	CS	00216	Ercal,F
	Prerequisites: Program competency and a "C" or better grade in either Math 1215 or Math 1221.	3.0- 3.0	73492	LEC	1B	TTh	12:30 - 01:45 pm	CS	00216	Sabharwal,C

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3500 Programming Languages And Translators Prerequisite: A "C" or better grade in Comp Sci 2200.	3.0- 3.0	73333	LEC	1A	MWF	12:00 - 12:50 pm	CS	00202	
	3.0- 3.0	70398	LEC	1B	MWF	02:00 - 02:50 pm	CS	00202	Morales,A
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	70401	LEC	1A	MW	11:00 - 12:50 pm	EMGT	00102	Ercal,F
	3.0- 3.0	72208	LEC	1B	TTh	11:00 - 12:15 pm	CS	00207	Ercal,F
3803 Computer Organization Prerequisites: A "C" or better in both Comp Eng 2210 and Comp Sci 1510.	3.0- 3.0	72704	LEC	1A	MWF	01:00 - 01:50 pm	EMGT	00201	Hurson,A
4000 Special Problems	0.0- 6.0	70392	IND	6A	ARR	ARR	ARR		Ercal,F
	0.0- 6.0	70394	IND	6B	ARR	ARR	ARR		Leopold,J
	0.0- 6.0	70395	IND	6C	ARR	ARR	ARR		Madria,S
	0.0- 6.0	70393	IND	6D	ARR	ARR	ARR		McMillin,B
	0.0- 6.0	73118	IND	6E	ARR	ARR	ARR		Hurson,A
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	71101	LEC	1A	TTh	02:00 - 03:15 pm	CS	00207	Morales,A
4097 Software Systems Development II Prerequisite: A "C" or better grade in Comp Sci 4096.	3.0- 3.0	71736	LEC	1A	TTh	02:00 - 03:15 pm	CS	00207	Morales,A
4099 Undergraduate Research	0.0- 6.0	70410	IND	6A	ARR	ARR	ARR		Das,S
	0.0- 6.0	70411	IND	6B	ARR	ARR	ARR		Ercal,F
	0.0- 6.0	71182	IND	6D	ARR	ARR	ARR		Hurson,A
	0.0- 6.0	71642	IND	6E	ARR	ARR	ARR		Leopold,J
	0.0- 6.0	71777	IND	6F	ARR	ARR	ARR		Lin,D
	0.0- 6.0	71940	IND	6G	ARR	ARR	ARR		Madria,S
	0.0- 6.0	71995	IND	6H	ARR	ARR	ARR		McMillin,B
	0.0- 6.0	72004	IND	6J	ARR	ARR	ARR		Tauritz,D
	0.0- 6.0	72449	IND	6K	ARR	ARR	ARR		Yin,Z
4700 Intellectual Property For Computer Scientists Prerequisite: Senior or graduate standing.	3.0- 3.0	71451	LEC	1A	T	07:00 - 09:30 pm	CS	00209	Canis,R
5000 Special Problems	0.0- 6.0	70402	IND	6A	ARR	ARR	ARR		Ercal,F
	0.0- 6.0	70403	IND	6B	ARR	ARR	ARR		Hurson,A
	0.0- 6.0	70404	IND	6C	ARR	ARR	ARR		Leopold,J
	0.0- 6.0	70405	IND	6D	ARR	ARR	ARR		Madria,S
	0.0- 6.0	70406	IND	6E	ARR	ARR	ARR		McMillin,B
	0.0- 6.0	70407	IND	6F	ARR	ARR	ARR		Sabharwal,C
	0.0- 6.0	71035	IND	6G	ARR	ARR	ARR		Tauritz,D
	0.0- 6.0	70408	IND	6H	ARR	ARR	ARR		
5001 Special Topics	3.0- 3.0	73393	LEC	1A	T	04:00 - 06:30 pm	BCH	00215	Bachman,B
									Comp Sci Entrepreneurship Prerequisite: Comp Sci 1510.
5099 Research	0.0-16.0	71144	IND	6A	ARR	ARR	ARR		Das,S
	0.0-16.0	70418	IND	6B	ARR	ARR	ARR		Ercal,F
	0.0-16.0	70419	IND	6C	ARR	ARR	ARR		Hurson,A
	0.0-16.0	70420	IND	6D	ARR	ARR	ARR		Jiang,W
	0.0-16.0	70421	IND	6E	ARR	ARR	ARR		Leopold,J
	0.0-16.0	70423	IND	6F	ARR	ARR	ARR		Lin,D
	0.0-16.0	70422	IND	6G	ARR	ARR	ARR		Madria,S
	0.0-16.0	70424	IND	6H	ARR	ARR	ARR		McMillin,B
	0.0-16.0	70425	IND	6J	ARR	ARR	ARR		Sabharwal,C
	0.0-16.0	71183	IND	6K	ARR	ARR	ARR		Sedighsarvestani,S
	0.0-16.0	71912	IND	6L	ARR	ARR	ARR		Tauritz,D
	0.0-16.0	71031	IND	6M	ARR	ARR	ARR		Wunsch,D
	0.0-16.0	71496	IND	6N	ARR	ARR	ARR		Yin,Z
	0.0-16.0	71497	IND	6P	ARR	ARR	ARR		Yin,Z
5101 Software Testing And Quality Assurance Prerequisite: A "C" or better grade in Comp Sci 2500.	3.0- 3.0	72844	LEC	1A	TTh	12:30 - 01:45 pm	FUL	00107A	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5200 Analysis Of Algorithms Prerequisite: A "C" or better grade in Comp Sci 2500.	3.0- 3.0	72049	LEC	1A	TTh	08:00 - 09:15 am	TMH	00260	Das,S
5201 Object-Oriented Numerical Modeling I Prerequisites: A "C" or better grade in both Comp Sci 3200 and Comp Sci 1510; a "C" or better grade in one of Math 3108, 3103, 3329.	3.0- 3.0	71695	LEC	1A	MWF	01:00 - 01:50 pm	CS	00204	Price,C
5204 Regression Analysis Prerequisites: Math 2222 and one of Stat 3111, 3113, 3115, 3117, or 5643. (Co-listed with Stat 5346)	3.0- 3.0	71196	LEC	1A	TTh	02:00 - 03:15 pm	CH	00105	Olbricht,G
5400 Introduction To Artificial Intelligence Prerequisite: A "C" or better grade in Comp Sci 2500.	3.0- 3.0	72705	LEC	1A	TTh	12:30 - 01:45 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	73334	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00103	Sabharwal,C
5500 The Structure of a Compiler Prerequisite: A "C" or better grade in both Comp Sci 3500 and Comp Sci 2500.	3.0- 3.0	72706	LEC	1A	MWF	02:00 - 02:50 pm	CS	00205	
									Distance Course Rates Apply
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	71414	LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00B12A	Lutzen,K
5800 Distributed Operating Systems Prerequisite: A "C" or better grade in both Comp Sci 3800 and Comp Sci 2500.	3.0- 3.0	71453	LEC	1A	TTh	11:00 - 12:15 pm	CS	00203	Jiang,W
6000 Special Problems	0.0- 6.0	70412	IND	6A	ARR	ARR	ARR		Ercal,F
	0.0- 6.0	70413	IND	6B	ARR	ARR	ARR		Leopold,J
	0.0- 6.0	70414	IND	6C	ARR	ARR	ARR		Madria,S
	0.0- 6.0	70415	IND	6D	ARR	ARR	ARR		McMillin,B
	0.0- 6.0	71143	IND	6E	ARR	ARR	ARR		Sabharwal,C
	0.0- 6.0	70416	IND	6F	ARR	ARR	ARR		Tauritz,D
	0.0- 6.0	70417	IND	6G	ARR	ARR	ARR		Yin,Z
6001 Special Topics	3.0- 3.0	73335	LEC	1A	TTh	02:00 - 03:15 pm	CS	00209	Yin,Z
									ML in Computer Vision Prerequisites: A "C" or better grade in both Math 3108 and Comp Sci 5200.
6010 Seminar	1.0- 1.0	71941	RSD	2A	M	10:00 - 10:50 am	CS	00209	Silvestri,S
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70426	IND	6A	ARR	ARR	ARR		Jiang,W
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70428	IND	6A	ARR	ARR	ARR		Jiang,W
6099 Research Special Topics	0.0-16.0	72416	IND	6A	ARR	ARR	ARR		Das,S
	0.0-16.0	72417	IND	6B	ARR	ARR	ARR		Ercal,F
	0.0-16.0	72418	IND	6C	ARR	ARR	ARR		Fu,Y
	0.0-16.0	72419	IND	6D	ARR	ARR	ARR		Guo,Z
	0.0-16.0	72420	IND	6E	ARR	ARR	ARR		Hurson,A
	0.0-16.0	72421	IND	6F	ARR	ARR	ARR		Jiang,W
	0.0-16.0	72422	IND	6G	ARR	ARR	ARR		Leopold,J
	0.0-16.0	72423	IND	6H	ARR	ARR	ARR		Lin,D
	0.0-16.0	72424	IND	6J	ARR	ARR	ARR		Madria,S
	0.0-16.0	72425	IND	6K	ARR	ARR	ARR		McMillin,B
	0.0-16.0	72426	IND	6L	ARR	ARR	ARR		Sabharwal,C
	0.0-16.0	72427	IND	6M	ARR	ARR	ARR		Saifullah,A
	0.0-16.0	72428	IND	6N	ARR	ARR	ARR		Sedighsarvestani,S
	0.0-16.0	72429	IND	6P	ARR	ARR	ARR		Silvestri,S
	0.0-16.0	72430	IND	6Q	ARR	ARR	ARR		Tauritz,D
	0.0-16.0	72968	IND	6R	ARR	ARR	ARR		Wunsch,D
	0.0-16.0	73493	IND	6T	ARR	ARR	ARR		Xiong,H

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)	0.0-16.0 3.0- 3.0	73494 73466	IND LEC	6U 1A	ARR F	ARR 04:00 - 06:30 pm	ARR LIB		Yin,Z
6201 Theory Of Computation Prerequisite: A "C" or better grade in Comp Sci 2200.	3.0- 3.0	73496	LEC	1A	M	04:00 - 06:30 pm	CS	00205	Fu,Y
6302 Heterogeneous and Mobile Databases Prerequisite: A "C" or better grade in Comp Sci 5300.	3.0- 3.0	72707	LEC	1A	MWF	02:00 - 02:50 pm	EECH	00239	Hurson,A
6303 Pervasive Computing Prerequisite: A "C" or better grade in either Comp Sci 4600 or Comp Eng 5410.	3.0- 3.0	73495	LEC	1A	Th	04:00 - 06:30 pm	CS	00209	Xiong,H
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	73338	LEC	1A	MWF	03:00 - 03:50 pm	EECH	00239	Leopold,J
6603 Advanced Topics in Wireless Networks Prerequisite: A "C" or better grade in Comp Sci 4600 or equivalent.	3.0- 3.0	72372	LEC	1A	TTh	09:30 - 10:45 am	CS	00203	Saifullah,A
6604 Mobile And Sensor Data Management Prerequisite: Comp Sci 4601.	3.0- 3.0	72708	LEC	1A	T	04:00 - 06:30 pm	CS	00209	Madria,S

Economics

1100 Principles Of Microeconomics	3.0- 3.0	70430	LEC	1A	M	06:00 - 09:00 pm	TMH	00199	Park,E
	3.0- 3.0	70431	LEC	1B	TTh	09:30 - 10:45 am	MCNT	00216	Fikru,M
	3.0- 3.0	70432	LEC	1C	TTh	12:30 - 01:45 pm	BCH	00120	Park,E
	3.0- 3.0	71975	LEC	1D	TTh	02:00 - 03:15 pm	EMGT	00103	Puslenghea,R
1200 Principles Of Macroeconomics	3.0- 3.0	70433	LEC	1A	MWF	09:00 - 09:50 am	EMGT	00103	Steelman,S
	3.0- 3.0	70434	LEC	1B	MWF	02:00 - 02:50 pm	BERTELS	00B10	Steelman,S
	3.0- 3.0	71983	LEC	1C	MWF	01:00 - 01:50 pm	MCNT	00216	Steelman,S
	3.0- 3.0	72161	LEC	1D	TTh	12:30 - 01:45 pm	BCH	00315	Puslenghea,R
	3.0- 3.0	73116	LEC	1E	TTh	11:00 - 12:15 pm	TMH	00295	Puslenghea,R
2001 Special Topics	3.0- 3.0	73385	LEC	1A	M	04:00 - 06:30 pm	HARR	00107	Bachman,B
									Domain Exp Innov Methods (Co-listed with Comp Sci 2001)
2100 Intermediate Microeconomic Theory Prerequisites: Econ 1100 and 1200.	3.0- 3.0	70438	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00121	Ichim,A
2200 Intermediate Macroeconomic Theory Prerequisites: Econ 1100 and 1200.	3.0- 3.0	71224	LEC	1A	MWF	01:00 - 01:50 pm	CS	00205	Davis,M
2300 Economic and Business Applications Prerequisites: Econ 1100 or 1200; Math 1140 or higher; Stat 1115 or 3111 or 3113 or 3115 or 3117 or 5643.	3.0- 3.0		LEC	1A	T	09:30 - 10:45 am	BERTELS	00B12A	Ichim,A
	3.0- 3.0	70437	LAB	3A	Th	09:30 - 10:45 am	CS	00206	Ichim,A
3001 Special Topics	3.0- 3.0		LEC	1A	W	04:00 - 06:30 pm	BCH	00317	Bachman,B
									Skill Development Prerequisite: 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	73388	LAB	3A	ARR	ARR	ARR		Bachman,B
									Skill Development (Co-listed with Comp Sci 3001)
3880 Introduction to Sports Economics Prerequisite: Econ 1100 or Econ 1200.	3.0- 3.0	71976	LEC	1A	MWF	11:00 - 11:50 am	CS	00204	Davis,M
4085 Internship Prerequisite: Senior status; must have completed 24 hours in major.	0.0- 6.0	70439	IND	6A	ARR	ARR	ARR		Gelles,G
4130 Network Economy Prerequisite: Econ 1100 or Econ 1200. (Co-listed with IS&T 4257)	3.0- 3.0	71447	LEC	1A	TTh	02:00 - 03:15 pm	HARR	00107	Park,E
4350 Statistical Models in Actuarial Science Prerequisite: Stat 5643 and either Stat 5644 or a 3000-level Stat course. (Co-listed with Stat 5755)	3.0- 3.0	72860	LEC	1A	MWF	09:00 - 09:50 am	ARR		

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4430 Cost-Benefit Analysis Prerequisite: Econ 2100.	3.0- 3.0	71847	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00249	Fikru,M
4540 Energy Economics Prerequisite: Econ 2100. (Co-listed with Min Eng 4524)	3.0- 3.0	72007	LEC	1A	MWF	11:00 - 11:50 am	TMH	00249	Gelles,G
4641 Foundations of Sustainability	3.0- 3.0	72052	LEC	1A	ARR	ARR	ARR		Bachman,B
5001 Special Topics Experiential Innovation Prerequisite: Senior or graduate standing. (Co-listed with Eng Mgt 5001)	3.0- 3.0	73391	LEC	1A	T	04:00 - 06:30 pm	BCH	00215	Bachman,B
5337 Financial Mathematics Prerequisites: Math 1215 or Math 1221, Econ 2100 or Econ 2200 or Econ 250 or Econ 321, Stat 3111 or Stat 3113 or Stat 3115 or Stat 3117 or Stat 5643. (Co-listed with Math 5737)	3.0- 3.0	71503	LEC	1A	MWF	10:00 - 10:50 am	EMGT	00106	Gelles,G
5532 Advanced Mining Economics (Co-listed with MIN ENG 5532)	3.0- 3.0	73407	LEC	1A	W	07:00 - 09:30 pm	BCH	00213	Hyder,Z
5540 Advanced Energy Economics Prerequisite: Econ 2100.	3.0- 3.0	72009	LEC	1A	MWF	11:00 - 11:50 am	TMH	00249	Gelles,G
5644 Creativity, Innovation, and Sustainability	3.0- 3.0	72243	LEC	1A	ARR	ARR	ARR		Bachman,B
6337 Financial Mathematics II Prerequisite: Math 5737 or Econ 5337. (Co-listed with Math 6737)	3.0- 3.0	73266	LEC	1A	ARR	ARR	ARR		Hu,W

Education

1040 Perspectives In Education	2.0- 2.0	70440	LEC	1A	TTh	08:00 - 08:50 am	CH	00103	Heavin,S
1104 Teacher Field Experience Prerequisite: Educ 1040.	2.0- 2.0	70441	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	70442	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	70443	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	72865	LEC	1A	M	04:00 - 06:30 pm	H-SS	00104	Spooner,P
3216 Teaching Reading in Content Area	3.0- 3.0	71340	LEC	1A	TTh	09:30 - 10:45 am	H-SS	00102	Carter,K
3217 Analysis and Correction of Reading Difficulties Prerequisite: Educ 3215.	3.0- 3.0	73364	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00203	Heavin,S
3218 Language Arts for Elementary Teachers Prerequisite: Educ 1040.	3.0- 3.0	73365	LEC	1A	TTh	02:00 - 03:15 pm	CH	00104	
3280 Teaching Methods And Skills In The Content Areas Prerequisites: Educ 1040 and 1104.	6.0- 6.0	70444	LEC	1A	T	04:00 - 07:30 pm	CH	00103	
			LEC	1A	Th	04:00 - 05:45 pm	H-SS	000G8	Davis,M
4298 Student Teaching Seminar Prerequisites: Meet all requirements for student teaching and concurrently be enrolled in student teaching.	1.0- 1.0	70445	LEC	1A	F	09:00 - 01:00 pm	CH	00214	
						Class meets only four times in a semester. Actual dates to be assigned by instructor.			
4299 Student Teaching Prerequisites: Professional standing and arrangements made previous semester.	12.0-12.0	70446	LEC	1A	ARR	ARR	ARR		Carter,K

Electrical Engineering

2100 Circuits I Prerequisites: Math 1215 (or 1221) with a grade of "C" or better. Students should enroll in Elec Eng 2100 and Elec Eng 2101 simultaneously.	3.0- 3.0	70447	LEC	1A	MWF	08:00 - 08:50 am	EECH	00104	Swift,T
	3.0- 3.0	71559	LEC	1B	MWF	09:00 - 09:50 am	EECH	00104	Swift,T
	3.0- 3.0	70448	LEC	1C	TTh	11:00 - 12:15 pm	EECH	00101	Wu,C
2101 Circuit Analysis Laboratory I Prerequisite: Preceded or accompanied by Elec Eng 2100. A student who drops Elec Eng 2100 must also drop Elec Eng 2101.	1.0- 1.0	70449	LAB	3A	M	06:10 - 08:00 pm	EECH	00203	Swift,T
	1.0- 1.0	71804	LAB	3B	T	08:00 - 09:50 am	EECH	00203	Swift,T
						Communication Emphasized			
						Communication Emphasized			

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	1.0- 1.0	72058	LAB	3C	T	12:30 - 02:20 pm	EECH	00203	Swift,T	
			Communication Emphasized							
	1.0- 1.0	70450	LAB	3D	T	02:30 - 04:20 pm	EECH	00203	Swift,T	
			Communication Emphasized							
	1.0- 1.0	70451	LAB	3E	W	01:00 - 02:50 pm	EECH	00203	Swift,T	
			Communication Emphasized							
	1.0- 1.0	71528	LAB	3F	W	03:00 - 04:50 pm	EECH	00203	Swift,T	
			Communication Emphasized							
	1.0- 1.0	72681	LAB	3G	Th	08:00 - 09:50 am	EECH	00203	Swift,T	
			Communication Emphasized							
	1.0- 1.0	71560	LAB	3H	Th	12:30 - 02:20 pm	EECH	00203	Swift,T	
			Communication Emphasized							
	1.0- 1.0	71561	LAB	3J	Th	02:30 - 04:20 pm	EECH	00203	Swift,T	
			Communication Emphasized							
	1.0- 1.0	72682	LAB	3K	Th	06:10 - 08:00 pm	EECH	00203	Swift,T	
			Communication Emphasized							
2120	Circuits II	3.0- 3.0	70452	LEC	1A	WF	08:00 - 08:50 am	EECH	00103	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	70453	LEC	1B	WF	09:00 - 09:50 am	EECH	00102	Shrestha,B
				LEC	1B	ARR	ARR	ARR		
		3.0- 3.0	70454	LEC	1C	WF	01:00 - 01:50 pm	EECH	00102	Shrestha,B
				LEC	1C	ARR	ARR	ARR		
2200	Introduction to Electronic Devices	3.0- 3.0	71435	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	71436	LEC	1B	TTh	11:00 - 12:15 pm	EECH	00102	Hwang,C
		3.0- 3.0	71437	LEC	1C	TTh	02:00 - 03:15 pm	EECH	00104	Wu,C
2201	Electronic Devices Laboratory	1.0- 1.0	71557	LAB	3A	M	01:00 - 02:50 pm	EECH	00203	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. Preceded or accompanied by Elec Eng 2200. This lab also meets in EECH 105 or EECH 106 when specified by the instructor.									
		1.0- 1.0	71438	LAB	3B	M	03:00 - 04:50 pm	EECH	00203	Kim,C
		1.0- 1.0	71439	LAB	3C	T	06:10 - 08:00 pm	EECH	00203	Kim,C
		1.0- 1.0	71440	LAB	3D	W	08:00 - 09:50 am	EECH	00203	Kim,C
		1.0- 1.0	71558	LAB	3E	W	06:10 - 08:00 pm	EECH	00203	Kim,C
		1.0- 1.0	71441	LAB	3F	F	01:00 - 02:50 pm	EECH	00203	Kim,C
		1.0- 1.0	71442	LAB	3G	F	03:00 - 04:50 pm	EECH	00203	Kim,C
		1.0- 1.0	72027	LAB	3H	M	08:00 - 09:50 am	EECH	00203	Kim,C
		1.0- 1.0	73089	LAB	3J	F	05:00 - 06:50 pm	EECH	00203	Kim,C
2800	Electrical Circuits	3.0- 3.0	70468	LEC	1A	MWF	11:00 - 11:50 am	EECH	00G31	Kaur,A
	Prerequisites: Math 3304 or 3329; Physics 2135.									
		3.0- 3.0	71393	LEC	1B	MWF	01:00 - 01:50 pm	SHNK	00G03	Kaur,A
3000	Special Problems	1.0- 6.0	70455	IND	6A	ARR	ARR	ARR		Drewniak,J
3002	Cooperative Engineering Training	1.0- 1.0	70456	IND	6A	ARR	ARR	ARR		Ferdowski,M
	Prerequisite: Consent of the Electrical and Computer Engineering Department required.									
3100	Electronics I	3.0- 3.0	70465	LEC	1A	TTh	11:00 - 12:15 pm	CS	00216	Khilkevich,V
	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	72062	LEC	1B	MWF	09:00 - 09:50 am	EECH	00239	Odun-Ayo,T
3101	Electronics I Laboratory	1.0- 1.0	72061	LAB	3A	M	01:00 - 02:50 pm	EECH	00204	Khilkevich,V
	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	70466	LAB	3B	M	03:00 - 04:50 pm	EECH	00204	Khilkevich,V
		1.0- 1.0	73297	LAB	3C	M	06:10 - 08:00 pm	EECH	00204	Khilkevich,V
		1.0- 1.0	71670	LAB	3D	T	08:00 - 09:50 am	EECH	00204	Khilkevich,V
		1.0- 1.0	73298	LAB	3E	T	02:30 - 04:20 pm	EECH	00204	Khilkevich,V
		1.0- 1.0	72683	LAB	3F	T	06:10 - 08:00 pm	EECH	00204	Khilkevich,V
				Communication Emphasized						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	1.0- 1.0	72063	LAB	3G	W	01:00 - 02:50 pm	EECH	00204	Khilkevich,V
						Communication Emphasized			
	1.0- 1.0	73299	LAB	3H	Th	02:30 - 04:20 pm	EECH	00204	Khilkevich,V
						Communication Emphasized			
3120 Electronics II Prerequisites: Elec Eng 3100 and Elec Eng 3101 each with a grade of "C" or better. Elec Eng 3121 is optional, but recommended.	3.0- 3.0	71910	LEC	1A	MWF	02:00 - 02:50 pm	EECH	00103	Moss,R
3121 Electronics II Laboratory Prerequisites: Elec Eng 3100 and Elec Eng 3101 each with a grade of "C" or better. Elec Eng 3120 is a corequisite.	1.0- 1.0	73300	LAB	3A	W	03:00 - 04:50 pm	EECH	00204	Moss,R
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	70461	LEC	1A	MWF	11:00 - 11:50 am	EECH	00102	Kim,C
3320 Control Systems Prerequisites: ELEC ENG 2120 and MATH 3304 each with a grade of "C" or better; passing the ELEC ENG Advancement Exam II; accompanied by ELEC ENG 3321.	3.0- 3.0	71234	LEC	1A	TTh	09:30 - 10:45 am	EECH	00103	Acar,L
3321 Control Systems Laboratory Prerequisites: ELEC ENG 2120 and MATH 3304 with a grade of "C" or better; passing the ELEC ENG Advancement Exam II; preceded or accompanied by ELEC ENG 3320.	1.0- 1.0	72241	LAB	3A	M	01:00 - 02:50 pm	EECH	00205	Acar,L
	1.0- 1.0	72799	LAB	3B	Th	02:30 - 04:20 pm	EECH	00205	Acar,L
	1.0- 1.0	72800	LAB	3C	F	01:00 - 02:50 pm	EECH	00205	Acar,L
	1.0- 1.0	72867	LAB	3D	T	05:00 - 06:50 pm	EECH	00205	Acar,L
3340 Controllers For Factory Automation Prerequisites: Elec Eng 2120 and Comp Eng 2210 each with a grade of "C" or better. Attendance at the lectures is optional. Exams are scheduled for 8:00-9:15am on Feb. 24, April 2, and May 5. Students with a conflicting lecture class at TR 8:00-9:15am will schedule the course exams at another time.	3.0- 3.0		LEC	1A	TTh	08:00 - 09:15 am	CS	00209	Erickson,K
	3.0- 3.0	70463	LAB	3A	M	03:00 - 04:50 pm	EECH	00G22	Erickson,K
	3.0- 3.0	70464	LAB	3B	T	12:00 - 01:50 pm	EECH	00G22	Erickson,K
	3.0- 3.0	71632	LAB	3C	W	01:00 - 02:50 pm	EECH	00G22	Erickson,K
	3.0- 3.0	72014	LAB	3D	T	02:30 - 04:20 pm	EECH	00G22	Erickson,K
3410 Digital Signal Processing Prerequisites: ELEC ENG 2120 with a grade of "C" or better; passing the ELEC ENG Advancement Exam II.	3.0- 3.0	71759	LEC	1A	MWF	08:00 - 08:50 am	EECH	00239	Dua,R
	3.0- 3.0	71563	LEC	1B	MWF	09:00 - 09:50 am	BCH	00120	Zheng,Y
3411 Discrete Linear Systems Laboratory	1.0- 1.0	72684	LAB	3A	CANCELLED				
	1.0- 1.0	71564	LAB	3B	CANCELLED				
	1.0- 1.0	71565	LAB	3C	CANCELLED				
	1.0- 1.0	71566	LAB	3D	CANCELLED				
	1.0- 1.0	71567	LAB	3E	W	03:00 - 04:50 pm	EE	00106	Zheng,Y
	1.0- 1.0	73301	LAB	3F	Th	08:00 - 09:50 am	EE	00106	Zheng,Y
	1.0- 1.0	73302	LAB	3G	Th	10:00 - 11:50 am	EE	00106	Zheng,Y
	1.0- 1.0	71568	LAB	3H	Th	02:30 - 04:20 pm	EE	00106	Zheng,Y
	1.0- 1.0	73303	LAB	3J	Th	06:10 - 08:00 pm	EE	00106	Zheng,Y
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	73304	LEC	1A	MWF	08:00 - 08:50 am	EECH	00101	Kosbar,K
	3.0- 3.0	73305	LEC	1B	MWF	09:00 - 09:50 am	EECH	00101	Kosbar,K
3431 Digital Communication Laboratory Prerequisites: ELEC ENG 2120 and ELEC ENG 2101 with a grade of "C" or better; passing the ELEC ENG Advancement Exam II; preceded or accompanied by ELEC ENG 3430.	1.0- 1.0	73306	LAB	3A	T	12:30 - 02:20 pm	EECH	00205	Kosbar,K
	1.0- 1.0	73307	LAB	3B	T	02:30 - 04:30 pm	EECH	00205	Kosbar,K
	1.0- 1.0	73308	LAB	3C	W	01:00 - 02:50 pm	EECH	00205	Kosbar,K
	1.0- 1.0	73309	LAB	3D	W	03:00 - 04:50 pm	EECH	00205	Kosbar,K

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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	70457	LEC	1A	TTh	08:00 - 09:15 am	EECH	00104	Kimball,J
3501 Electromechanics Laboratory Prerequisites: Elec Eng 2120 with a grade of "C" or better; passing grade on the Elec Eng Advancement Exam II. Preceded or accompanied by Elec Eng 3500.	1.0- 1.0	70459	LAB	3A	T	12:30 - 02:20 pm	EECH	00G12	Kimball,J
	1.0- 1.0	71562	LAB	3B	W	10:00 - 11:50 am	EECH	00G12	Kimball,J
	1.0- 1.0	72059	LAB	3C	W	01:00 - 02:50 pm	EECH	00G12	Kimball,J
	1.0- 1.0	73310	LAB	3D	F	01:00 - 02:50 pm	EECH	00G12	Kimball,J
3540 Power System Design And Analysis Prerequisites: Elec Eng 2120 with a grade of "C" or better; passing grade on the Elec Eng Advancement Exam II.	3.0- 3.0	70458	LEC	1A	MWF	01:00 - 01:50 pm	CS	00209	Odun-Ayo,T
3541 Power System Design And Analysis Laboratory Prerequisites: Elec Eng 2120 with a grade of "C" or better; passing grade on the Elec Eng Advancement Exam II. Preceded or accompanied by Elec Eng 3540.	1.0- 1.0	71621	LAB	3A	M	01:00 - 02:50 pm	EECH	00G12	Ferdowski,M
	1.0- 1.0	70460	LAB	3B	Th	12:30 - 02:20 pm	EECH	00G12	Ferdowski,M
	1.0- 1.0	72060	LAB	3C	F	10:00 - 11:50 am	EECH	00G12	Ferdowski,M
3600 Electromagnetics Prerequisites: Elec Eng 2120, Elec Eng 2101, Physics 2135, and Math 3304 each with a grade of "C" or better. Passing grade on Elec Eng Advancement Exam II.	4.0- 4.0	70467	LEC	1A	TTh	08:00 - 09:15 am	EECH	00102	Donnell,K
	4.0- 4.0	71748	LEC	1B	MWF	10:00 - 10:50 am	FUL	00107A	Huang,J
4000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	70470	IND	6A	ARR	ARR	ARR		Wu,C
	0.0- 6.0	70469	IND	6B	ARR	ARR	ARR		Zheng,Y
4096 Electrical Engineering Senior Project I Prerequisites: Comp Eng 2210, Econ 1100 or 1200, English 3560, at least 3 of the following: Elec Eng 3500, Elec Eng 3540, Elec Eng 3320, Elec Eng 3420, Elec Eng 3600, Elec Eng 3100.	1.0- 1.0		RSD	2A	M	12:00 - 12:50 pm	EECH	00G31	Cutitaru,M
	1.0- 1.0		RSD	2B	M	12:00 - 12:50 pm	EECH	00G31	Cutitaru,M
	1.0- 1.0	70486	LAB	3A	T	03:30 - 04:20 pm	EECH	00101	Cutitaru,M
	1.0- 1.0	70487	LAB	3B	W	03:00 - 03:50 pm	EECH	00104	Pommerenke,D
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	70488	LAB	3A	MW	03:00 - 04:50 pm	EECH	00102	Cutitaru,M
	3.0- 3.0	70489	LAB	3B	TTh	03:00 - 04:50 pm	EECH	00102	Zawodniok,M
4099 Undergraduate Research Prerequisite: Consent of instructor.	0.0- 6.0	70474	IND	6A	ARR	ARR	ARR		Chowdhury,B
	0.0- 6.0	71404	IND	6B	ARR	ARR	ARR		Crow,M
	0.0- 6.0	70475	IND	6C	ARR	ARR	ARR		Drewniak,J
	0.0- 6.0	70476	IND	6D	ARR	ARR	ARR		Dubroff,R
	0.0- 6.0	70477	IND	6E	ARR	ARR	ARR		Erickson,K
	0.0- 6.0	70478	IND	6F	ARR	ARR	ARR		Fan,J
	0.0- 6.0	70479	IND	6G	ARR	ARR	ARR		Kimball,J
	0.0- 6.0	70480	IND	6H	ARR	ARR	ARR		Kosbar,K
	0.0- 6.0	70481	IND	6J	ARR	ARR	ARR		Moss,R
	0.0- 6.0	70482	IND	6K	ARR	ARR	ARR		Sarangapani,J
	0.0- 6.0	71034	IND	6M	ARR	ARR	ARR		Watkins,S
	0.0- 6.0	70483	IND	6N	ARR	ARR	ARR		Wu,C
	0.0- 6.0	70484	IND	6P	ARR	ARR	ARR		Xiao,C
	0.0- 6.0	71203	IND	6Q	ARR	ARR	ARR		Zheng,Y
	0.0- 6.0	71911	IND	6R	ARR	ARR	ARR		Zoughi,R
5000 Special Problems	0.0- 6.0	73060	IND	6A	ARR	ARR	ARR		Watkins,S
5001 Special Topics Prerequisites: Elec Eng 2200 or equivalent or graduate standing.	3.0- 3.0	73605	LEC	1A	Th	07:00 - 09:30 pm	TMH	00260	Ferguson,I
									Introduction to Nanotechnology

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5040 Oral Examination	0.0- 0.0	70517	IND	6A	ARR	ARR	ARR		Beetner,D
Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70518	IND	6B	ARR	ARR	ARR		Beetner,D
5099 Special Research And Thesis	0.0-15.0	70495	IND	6A	ARR	ARR	ARR		Acar,L
	0.0-15.0	70496	IND	6B	ARR	ARR	ARR		Beetner,D
	0.0-15.0	70497	IND	6F	ARR	ARR	ARR		Cetinkaya,E
	0.0-15.0	70498	IND	6G	ARR	ARR	ARR		Choi,M
	0.0-15.0	70499	IND	6H	ARR	ARR	ARR		Crow,M
	0.0-15.0	70500	IND	6K	ARR	ARR	ARR		Donnell,K
	0.0-15.0	71399	IND	6L	ARR	ARR	ARR		Drewniak,J
	0.0-15.0	71149	IND	6M	ARR	ARR	ARR		Erickson,K
	0.0-15.0	71151	IND	6N	ARR	ARR	ARR		Fan,J
	0.0-15.0	70501	IND	6P	ARR	ARR	ARR		Ferdowsi,M
	0.0-15.0	70502	IND	6Q	ARR	ARR	ARR		Huang,J
	0.0-15.0	70503	IND	6T	ARR	ARR	ARR		Joo,J
	0.0-15.0	70504	IND	6U	ARR	ARR	ARR		Khilkevich,V
	0.0-15.0	70505	IND	6V	ARR	ARR	ARR		Kim,C
	0.0-15.0	70506	IND	6W	ARR	ARR	ARR		Kimball,J
	0.0-15.0	70507	IND	6X	ARR	ARR	ARR		Kosbar,K
	0.0-15.0	70508	IND	6Z	ARR	ARR	ARR		Moss,R
	0.0-15.0	70509	IND	6AA	ARR	ARR	ARR		Pommerenke,D
	0.0-15.0	70510	IND	6CC	ARR	ARR	ARR		Sarangapani,J
	0.0-15.0	70511	IND	6DD	ARR	ARR	ARR		Sedighsarvestani,S
	0.0-15.0	70512	IND	6EE	ARR	ARR	ARR		Shamsi,P
	0.0-15.0	70513	IND	6FF	ARR	ARR	ARR		Shi,Y
	0.0-15.0	70514	IND	6GG	ARR	ARR	ARR		Stanley,R
	0.0-15.0	70515	IND	6HH	ARR	ARR	ARR		Watkins,S
	0.0-15.0	71914	IND	6JJ	ARR	ARR	ARR		Wu,C
	0.0-15.0	71990	IND	6KK	ARR	ARR	ARR		Wunsch,D
	0.0-15.0	72147	IND	6LL	ARR	ARR	ARR		Xiao,C
	0.0-15.0	72177	IND	6MM	ARR	ARR	ARR		Xiao,H
	0.0-15.0	72432	IND	6NN	ARR	ARR	ARR		Zawodniok,M
	0.0-15.0	72453	IND	6PP	ARR	ARR	ARR		Zheng,Y
	0.0-15.0	72455	IND	6QQ	ARR	ARR	ARR		Zoughi,R
5300 Digital Control	3.0- 3.0	70471	LEC	1A	TTh	11:00 - 12:15 pm	CS	00209	Acar,L
Prerequisite: Elec Eng 3320.									
5340 Advanced PLC	3.0- 3.0		LEC	1A	ARR	ARR	ARR		Erickson,K
									Brown,J
	3.0- 3.0	73593	LAB	3A	T	04:30 - 06:20 pm	EECH	00G22	Erickson,K
									This lecture will be viewed through Canvas. One 75-minutes exam and the 60-minute final exam/presentation will be scheduled separately. The instructor will notify the class the details.
5345 PLC Motion Control	3.0- 3.0		LEC	1A	MWF	08:00 - 08:50 am	CS	00209	Erickson,K
Prerequisite: Elec Eng 3340.									
	3.0- 3.0	73557	LAB	3A	M	01:00 - 02:50 pm	EECH	00G22	Erickson,K
	3.0- 3.0	73558	LAB	3B	W	03:00 - 04:50 pm	EECH	00G22	Erickson,K
	3.0- 3.0	73559	LAB	3C	Th	12:00 - 01:50 pm	EECH	00G22	Erickson,K
5350 Plantwide Process Control	3.0- 3.0	72064	LEC	1A	TTh	02:00 - 03:15 pm	EECH	00103	Erickson,K
Prerequisites: Chem Eng 4110, Elec Eng 3320, Elec Eng 3340 or graduate standing. (Co-listed with Chem Eng 5190)									
5360 System Simulation And Identification	3.0- 3.0	73311	LEC	1A	Th	04:00 - 06:30 pm	BCH	00314	Dierks,T
Prerequisite: Elec Eng 3320.									
5370 Introduction to Neural Networks and Applications	3.0- 3.0	72233	LEC	1A	T	04:00 - 06:30 pm	MCNT	00130	Dagli,C
Prerequisites: Graduate Standing. (Co-listed with Sys Eng 5212)									
5420 Communications Systems II	3.0- 3.0	70472	LEC	1A	W	04:00 - 06:30 pm	HARR	00107	Potter,C
Prerequisite: Elec Eng 3420.									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5460 Machine Vision Prerequisites: At least one of the following: Elec Eng 3400, Elec Eng 3410, Elec Eng 3420, or prior exposure to Fourier Transforms and consent of the instructor. (Co-listed with Comp Eng 5460)	3.0- 3.0	71657	LEC	1A	MWF	11:00 - 11:50 am	EECH	00103	Moss,R
5500 Electric Drive Systems Prerequisites: Elec Eng 3500 and Elec Eng 3320.	3.0- 3.0	72220	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	72689	LAB	3A	MW	03:00 - 04:50 pm	EECH	00G12	Ferdowsi,M
5550 Electric Power Quality Prerequisite: Elec Eng 3500 or Elec Eng 3540.	3.0- 3.0	72690	LEC	1A	MWF	11:00 - 11:50 am	EECH	00239	Kimball,J
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	70473	LEC	1A	MWF	10:00 - 10:50 am	EECH	00103	Drewniak,J
5670 Nondestructive Testing Prerequisite: Physics 24 or 25. (Co-listed with Met Eng 5510)	3.0- 3.0	71615	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00111	Zoughi,R
5870 Mechatronics Prerequisite: Mech Eng 4479 or equivalent. (Co-listed with Mech Eng 5478, Aero Eng 5478 and Comp Eng 5820)	3.0- 3.0 3.0- 3.0	 73477	LEC LAB	1A 3A	MW F	08:00 - 08:50 am 08:00 - 08:50 am	TMH TMH	00250 00250	Krishnamurthy,K Krishnamurthy,K
6000 Special Problems	0.0- 6.0	70490	IND	6A	ARR	ARR	ARR		Chowdhury,B
	0.0- 6.0	70491	IND	6B	ARR	ARR	ARR		Corzine,K
	0.0- 6.0	70492	IND	6C	ARR	ARR	ARR		Crow,M
	0.0- 6.0	70493	IND	6D	ARR	ARR	ARR		Drewniak,J
	0.0- 6.0	70494	IND	6E	ARR	ARR	ARR		Ferdowsi,M
	0.0- 6.0	71288	IND	6F	ARR	ARR	ARR		Khilkevich,V
	0.0- 6.0	71299	IND	6G	ARR	ARR	ARR		Kim,C
	0.0- 6.0	71405	IND	6H	ARR	ARR	ARR		Kimball,J
	0.0- 6.0	71320	IND	6J	ARR	ARR	ARR		Kosbar,K
	0.0- 6.0	71526	IND	6K	ARR	ARR	ARR		Pommerenke,D
	0.0- 6.0	71631	IND	6L	ARR	ARR	ARR		Sarangapani,J
	0.0- 6.0	71920	IND	6M	ARR	ARR	ARR		Sedighsarvestani,S
	0.0- 6.0	72000	IND	6N	ARR	ARR	ARR		Shi,Y
	0.0- 6.0	72569	IND	6Q	ARR	ARR	ARR		Watkins,S
6001 Special Topics	3.0- 3.0	73313	LEC	1A	TTh	03:30 - 04:45 pm	EECH	00112	Ferdowsi,M
									Adv Topics in Power Engr Prerequisites: Graduate standing in Electrical Engineering; for repeated credit, permission of instructor required.
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70519	IND	6A	ARR	ARR	ARR		Pommerenke,D
6085 Internship DE students only.	0.0-15.0	70516	IND	6A	ARR	ARR	ARR		Dubroff,R
6099 Special Research And Thesis	0.0-15.0	72452	IND	6A	ARR	ARR	ARR		Acar,L
	0.0-15.0	72454	IND	6B	ARR	ARR	ARR		Beetner,D
	0.0-15.0	72456	IND	6C	ARR	ARR	ARR		Cetinkaya,E
	0.0-15.0	72457	IND	6D	ARR	ARR	ARR		Choi,M
	0.0-15.0	72479	IND	6E	ARR	ARR	ARR		Crow,M
	0.0-15.0	72480	IND	6F	ARR	ARR	ARR		Donnell,K
	0.0-15.0	72481	IND	6G	ARR	ARR	ARR		Drewniak,J
	0.0-15.0	72482	IND	6H	ARR	ARR	ARR		Erickson,K
	0.0-15.0	72483	IND	6J	ARR	ARR	ARR		Fan,J
	0.0-15.0	72484	IND	6K	ARR	ARR	ARR		Ferdowsi,M
	0.0-15.0	72485	IND	6L	ARR	ARR	ARR		Joo,J
	0.0-15.0	72486	IND	6M	ARR	ARR	ARR		Khilkevich,V
	0.0-15.0	72487	IND	6N	ARR	ARR	ARR		Kim,C
	0.0-15.0	72488	IND	6P	ARR	ARR	ARR		Kimball,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0-15.0	72489	IND	6Q	ARR	ARR	ARR		Kosbar,K
	0.0-15.0	72490	IND	6R	ARR	ARR	ARR		Moss,R
	0.0-15.0	72491	IND	6T	ARR	ARR	ARR		Pommerenke,D
	0.0-15.0	72492	IND	6U	ARR	ARR	ARR		Sarangapani,J
	0.0-15.0	72493	IND	6V	ARR	ARR	ARR		Sedighsarvestani,S
	0.0-15.0	72494	IND	6W	ARR	ARR	ARR		Shamsi,P
	0.0-15.0	72495	IND	6X	ARR	ARR	ARR		Shi,Y
	0.0-15.0	72496	IND	6Y	ARR	ARR	ARR		Stanley,R
	0.0-15.0	72497	IND	6Z	ARR	ARR	ARR		Watkins,S
	0.0-15.0	72498	IND	6AA	ARR	ARR	ARR		Wu,C
	0.0-15.0	72499	IND	6BB	ARR	ARR	ARR		Wunsch,D
	0.0-15.0	72500	IND	6CC	ARR	ARR	ARR		Xiao,C
	0.0-15.0	72501	IND	6DD	ARR	ARR	ARR		Zawodniok,M
	0.0-15.0	72502	IND	6EE	ARR	ARR	ARR		Zheng,Y
	0.0-15.0	72503	IND	6FF	ARR	ARR	ARR		Zoughi,R
6310 Optimal Control And Estimation Prerequisite: Elec Eng 431.	3.0- 3.0	72066	LEC	1A	TTh	09:30 - 10:45 am	EECH	00111	Sarangapani,J
6330 Robust Control Systems Prerequisite: Elec Eng 6300.	3.0- 3.0	73314	LEC	1A	MWF	10:00 - 10:50 am	EECH	00104	Modares,H
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	73278	LEC	1A	T	07:00 - 09:30 pm	EECH	00239	Wunsch,D
6400 Advanced Digital Signal Processing Prerequisites: Elec Eng 5400 or Elec Eng 5420; Elec Eng 5440 or Stat 5643.	3.0- 3.0	73586	LEC	1A	MWF	12:00 - 12:50 pm	EECH	00101	Ahmed,N
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	73283	LEC	1A	MWF	08:00 - 08:50 am	FUL	00107A	Zawodniok,M
6450 Statistical Decision Theory Prerequisite: Elec Eng 5440.	3.0- 3.0	73316	LEC	1A	MWF	02:00 - 02:50 pm	EECH	00101	Zheng,Y
6520 Advanced Power Electronics Prerequisite: Elec Eng 5520.	3.0- 3.0	73317	LEC	1A	TTh	02:00 - 03:15 pm	EECH	00239	Ferdowsi,M
6550 Power System Stability Prerequisite: Elec Eng 3540 or similar course.	3.0- 3.0	73318	LEC	1A	T	04:00 - 06:30 pm	BCH	00213	Crow,M
6560 Power System Protection Prerequisite: Elec Eng 5560 and 5540.	3.0- 3.0	73319	LEC	1A	TTh	08:00 - 09:15 am	EECH	00239	Nauert,P
6580 Power System Operations Prerequisite: Elec Eng 5540.	3.0- 3.0	73321	LEC	1A	M	07:00 - 09:30 pm	EECH	00103	Thammineni,K
6600 Advanced Electromagnetics I Prerequisite: Elec Eng 3600 or equivalent undergraduate electromagnetics course.	3.0- 3.0	72696	LEC	1A	MWF	03:00 - 03:50 pm	TMH	00260	Drewniak,J
6640 Advanced Topics in Antenna Analysis and Design Prerequisite: Elec Eng 5640 or equivalent.	3.0- 3.0	73323	LEC	1A	TTh	11:00 - 12:15 pm	EECH	00112	Zoughi,R

Engineering Management

1100 Practical Concepts for Technical Managers	1.0- 1.0	71419	LEC	1A	ARR	ARR	ARR		Grasman,K
	1.0- 1.0	71420	LEC	1B	ARR	ARR	ARR		Grasman,K
1210 Economic Analysis of Engineering Projects Prerequisite: Math 1214.	2.0- 2.0	71457	LEC	1A	TTh	10:00 - 10:50 am	BCH	00125	Grasman,K
									No required classroom meetings other than common exams scheduled for Feb. 28th and April 11th from 6:00-8:00 pm.
									See 'Notes' for Evening Exams
	2.0- 2.0	71326	LEC	1B	ARR	ARR	ARR		Grasman,K
									No required classroom meetings other than common exams scheduled for Feb. 28th and April 11th from 6:00-8:00 pm.
									See 'Notes' for Evening Exams
2002 Cooperative Engineering Training	0.0- 6.0	70520	IND	6A	ARR	ARR	ARR		Raper,S

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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	72015	LEC	1A	MWF	10:00 - 10:50 am	CS	00207	Raper,S
	3.0- 3.0	70521	LEC	1B	TTh	09:30 - 10:45 am	IDE	00206	Spurlock,D
2211 Engineering Accounting and Finance Prerequisite: Eng Mgt 1210, or understanding of engineering economic principles.	3.0- 3.0	71491	LEC	1A	TTh	03:30 - 04:45 pm	MCNT	00212	Hodges,S
	3.0- 3.0	72645	LEC	1B	TTh	02:00 - 03:15 pm	MCNT	00212	Hodges,S
2310 Introduction to System Engineering Prerequisite: Math 1208 or Math 1214.	3.0- 3.0	72127	LEC	1A	TTh	08:00 - 09:15 am	H-SS	000G5	Corns,S
3310 Operations and Production Management Prerequisites: Eng Mgt 2110.	3.0- 3.0	70524	LEC	1A	MWF	09:00 - 09:50 am	EMGT	00102	Sun,Z
3320 Introduction to Project Management Prerequisites: Junior or above standing.	3.0- 3.0	71327	LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00201	Schuman,J
3510 Marketing Management Prerequisites: Preceded or accompanied by Eng Mgt 2110.	3.0- 3.0	70522	LEC	1A	MWF	11:00 - 11:50 am	EMGT	00201	Long,S
4099 Undergraduate Research	0.0- 6.0	70526	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	70523	LEC	1A	TTh	09:30 - 10:45 am	FUL	00220	Raper,S
4310 Materials Handling and Plant Layout Prerequisites: Junior standing.	3.0- 3.0		LEC	1A	MW	01:00 - 01:50 pm	BCH	00314	Gosavi,A
	3.0- 3.0	71311	LAB	3A	W	02:00 - 03:50 pm	SHNK	00140	Gosavi,A
4312 Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing. (Co-listed with Chem Eng 5130)	3.0- 3.0	71720	LEC	1A	M	07:00 - 09:30 pm	CS	00209	Schmidt,M
4330 Human Factors Prerequisite: Psych 1101. (Co-listed with Psych 4710)	3.0- 3.0	72225	LEC	1A	TTh	09:30 - 10:45 am	EECH	00101	Baker,D
4710 Quality Prerequisites: Stat 3115 or Stat 3117.	3.0- 3.0	71421	LEC	1A	TTh	02:00 - 03:15 pm	EMGT	00201	Cudney,E
4907 Engineering Management Senior Design Prerequisites: Preceded or accompanied by Eng Mgt 4110.	3.0- 3.0	71495	LEC	1A	TTh	11:00 - 12:15 pm	MCNT	00210	Grantham,K
5001 Special Topics Experiential Innovation Prerequisite: Senior or graduate standing. (Co-listed with Econ 5001)	3.0- 3.0	73392	LEC	1A	T	04:00 - 06:30 pm	BCH	00215	Bachman,B
5111 Management for Engineers and Scientists Prerequisite: Graduate standing.	3.0- 3.0	71576	LEC	1A	W	04:00 - 06:30 pm	LIB	000G14	Spurlock,D
5210 Economic Decision Analysis Prerequisite: Graduate students without previous course in engineering economy because of partial overlap.	3.0- 3.0	71117	LEC	1A	W	07:00 - 09:30 pm	EECH	00239	Wiles,P
5312 Advanced Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing.	3.0- 3.0	72228	LEC	1A	M	07:00 - 09:30 pm	CS	00209	Schmidt,M
5320 Project Management Prerequisite: Graduate Standing	3.0- 3.0	71049	LEC	1A	M	04:00 - 06:30 pm	EECH	00239	Berry,R
5410 Industrial System Simulation Prerequisite: Stat 3115 or Stat 3117.	3.0- 3.0	73217	LEC	1A	MWF	08:00 - 08:50 am	MCNT	00114	Sun,Z
5411 Engineering Design Optimization Prerequisite: Math 3304 or 3329.	3.0- 3.0	71737	LEC	1A	W	04:00 - 06:30 pm	EECH	00239	Guardiola,I
5412 Operations Management Science Prerequisites: Graduate standing.	3.0- 3.0	71459	LEC	1A	T	07:00 - 09:30 pm	TMH	00260	Konur,D
5512 Legal Environment Prerequisites: Senior or graduate standing.	3.0- 3.0	70525	LEC	1A	T	04:00 - 06:30 pm	EECH	00239	Canis,R
5515 Integrated Product And Process Design Prerequisites: Junior or above standing. (Co-listed with MECH ENG 5757)	3.0- 3.0	72646	LEC	1A	M	04:00 - 05:15 pm	CS	00209	Grantham,K

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5613 Value Analysis Prerequisite: Senior or graduate standing.	3.0- 3.0	71671	LEC	1A	M	07:00 - 09:30 pm	MCNT	00130	Lin,H
5614 Supply Chain Management Systems Prerequisite: Stat 3115 or Stat 3117.	3.0- 3.0	71865	LEC	1A	MWF	10:00 - 10:50 am	EMGT	00201	Long,S
5615 Production Planning And Scheduling Prerequisite: Eng Mgt 3310.	3.0- 3.0	71577	LEC	1A	TTh	03:30 - 04:45 pm	EMGT	00103	Gosavi,A
6001 Special Topics Financial Data Analysis Prerequisites: An undergraduate calculus based statistics course and one of Eng Mgt 6212, Sys Eng 6612, Eng Mgt 6213, or Sys Eng 6613. (Co-listed with Stat 6001)	3.0- 3.0	73461	LEC	1A	W	04:00 - 06:30 pm	EMGT	00103	Qin,R
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	70528	IND	6A	ARR	ARR	ARR		Long,S
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70529	IND	6A	ARR	ARR	ARR		Long,S
6099 Research	0.0-15.0	72287	IND	6A	ARR	ARR	ARR		Corns,S
	0.0-15.0	72288	IND	6B	ARR	ARR	ARR		Cudney,E
	0.0-15.0	72289	IND	6C	ARR	ARR	ARR		Dagli,C
	0.0-15.0	72290	IND	6D	ARR	ARR	ARR		Enke,D
	0.0-15.0	72291	IND	6E	ARR	ARR	ARR		Gosavi,A
	0.0-15.0	72292	IND	6F	ARR	ARR	ARR		Grantham,K
	0.0-15.0	72293	IND	6G	ARR	ARR	ARR		Guardiola,I
	0.0-15.0	72294	IND	6H	ARR	ARR	ARR		Konur,D
	0.0-15.0	72295	IND	6J	ARR	ARR	ARR		Long,S
	0.0-15.0	72296	IND	6K	ARR	ARR	ARR		Murray,S
	0.0-15.0	72297	IND	6L	ARR	ARR	ARR		Qin,R
	0.0-15.0	72298	IND	6M	ARR	ARR	ARR		Raper,S
6110 Case Studies In General Management Prerequisite: Preceded or accompanied by an Eng Mgt 6000 level course.	3.0- 3.0	71276	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	71578	LEC	1A	Th	04:00 - 06:30 pm	TMH	00260	Enke,D
6215 Financial Risk Management Prerequisite: Eng Mgt 1210 or 5210. (Co-listed with Sys Eng 6615)	3.0- 3.0	73216	LEC	1A	M	04:00 - 06:30 pm	LIB	000G14	Enke,D
6323 Global Project Management Prerequisite: Eng Mgt 5320 or equivalent.	3.0- 3.0	71328	LEC	1A	T	04:00 - 06:30 pm	TMH	00260	Schuman,J
6412 Mathematical Programming Prerequisites: Stat 3113 or equivalent and (Eng Mgt 5414 or Math 3103 or Math 3108) (Co-listed with Math 6665)	3.0- 3.0	72229	LEC	1A	M	07:00 - 09:30 pm	LIB	000G14	Konur,D
6510 Technological Innovation Management Prerequisite: Eng Mgt 5111.	3.0- 3.0	71056	LEC	1A	Th	04:00 - 06:30 pm	LIB	00316	Bade,J

English

1120 Exposition And Argumentation	3.0- 3.0	70530	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00204	
	3.0- 3.0	70531	LEC	1B	TTh	12:30 - 01:45 pm	H-SS	000G8	
	3.0- 3.0	71338	LEC	1C	MWF	09:00 - 09:50 am	EMGT	00104	Arthur,R
	3.0- 3.0	70532	LEC	1D	MWF	10:00 - 10:50 am	H-SS	00204	Roberson,E
	3.0- 3.0	70533	LEC	1E	MWF	12:00 - 12:50 pm	H-SS	000G8	Ekstam,F
	3.0- 3.0	71454	LEC	1F	MWF	11:00 - 11:50 am	H-SS	00204	Dereberry,M
	3.0- 3.0	71597	LEC	1H	MWF	01:00 - 01:50 pm	H-SS	00203	Dereberry,M
	3.0- 3.0	71456	LEC	1J	TTh	08:00 - 09:15 am	H-SS	00203	Tate,K
	3.0- 3.0	70534	LEC	1K	TTh	11:00 - 12:15 pm	EMGT	00104	Wise,R
	3.0- 3.0	71750	LEC	1L	TTh	09:30 - 10:45 am	H-SS	000G9	Tate,K
	3.0- 3.0	71241	LEC	1M	TTh	12:30 - 01:45 pm	H-SS	00104	Tate,K
	3.0- 3.0	72011	LEC	1N	TTh	02:00 - 03:15 pm	H-SS	00104	Wise,R
1160 Writing And Research	3.0- 3.0	70535	LEC	1A	MWF	08:00 - 08:50 am	H-SS	000G8	Goldberg,M
Prerequisite: English 1120.	3.0- 3.0	70536	LEC	1B	MWF	09:00 - 09:50 am	H-SS	000G8	Goldberg,M

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	3.0- 3.0	71751	LEC	1C	MWF	10:00 - 10:50 am	H-SS	000G8	Goldberg,M
	3.0- 3.0	70538	LEC	1D	MWF	02:00 - 02:50 pm	H-SS	00202	Larson,J
	3.0- 3.0	71605	LEC	1E	TTh	02:00 - 03:15 pm	BCH	00313	Larson,J
	3.0- 3.0	71627	LEC	1F	TTh	09:30 - 10:45 am	BCH	00313	Schneider,R
	3.0- 3.0	71626	LEC	1G	TTh	11:00 - 12:15 pm	H-SS	00202	Schneider,R
	3.0- 3.0	70537	LEC	1H	TTh	12:30 - 01:45 pm	CS	00206	Larson,J
	3.0- 3.0	72546	LEC	1J	TTh	02:00 - 03:15 pm	H-SS	00102	Schneider,R
	3.0- 3.0	73026	LEC	1K	MWF	01:00 - 01:50 pm	BCH	00317	Larson,J
1211	3.0- 3.0	70539	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00256	Bryan,E
1212	3.0- 3.0	70540	LEC	1A	TTh	12:30 - 01:45 pm	EMGT	00201	Cotterill,A
1221	3.0- 3.0	72627	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00104	Dolan,K
1222	3.0- 3.0	70541	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00201	Goldberg,M
	3.0- 3.0	71287	LEC	1B	TTh	02:00 - 03:15 pm	CS	00204	Tate,K
1231	3.0- 3.0	73444	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00102	Cotterill,A
1600	3.0- 3.0	71218	LEC	1A	MWF	09:00 - 09:50 am	CSF	00114	Dunstedter,L
	3.0- 3.0	71753	LEC	1B	MWF	10:00 - 10:50 am	CSF	00114	Kerwin,R
	3.0- 3.0	72802	LEC	1C	ARR	ARR	ARR		Roberson,E
									This course is a full semester course.
									UM Shared Course-Primary
2000	0.0- 6.0	70545	IND	6A	ARR	ARR	ARR		Swenson,K
2001	3.0- 3.0	73445	LEC	1A	MWF	09:00 - 09:50 am	SHNK	00140	Schneider,R
									Graphic Novel
									Prerequisite: English 1120 and one semester of college literature.
2241	3.0- 3.0	73446	LEC	1A	MWF	10:00 - 10:50 am	EMGT	00102	Arthur,R
									Prerequisites: English 1120 and a semester of college literature.
2244	3.0- 3.0	72351	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00201	Reardon,D
			LEC	1A	ARR	ARR	ARR		
									Prerequisites: English 1120 and a semester of college literature.
2560	3.0- 3.0	71786	LEC	1A	ARR	ARR	ARR		Wright,M
	3.0- 3.0	71123	LEC	1B	ARR	ARR	ARR		Wright,M
									Prerequisites: English 1600 or Tch Com 1600 or English 1160. (Co-listed with TCH COM 2560)
3000	0.0- 6.0	71129	IND	6A	ARR	ARR	ARR		Swenson,K
	0.0- 6.0	71145	IND	6B	ARR	ARR	ARR		
	0.0- 6.0	70546	IND	6C	ARR	ARR	ARR		
	0.0- 6.0	71222	IND	6D	ARR	ARR	ARR		
3001	3.0- 3.0	73587	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	00103	Hercula,S
									English Grammar
									Prerequisite: English 1120 or equivalent.
3085	0.0- 6.0	71272	LEC	1A	ARR	ARR	ARR		Swenson,K
									Prerequisite: Senior status; must have completed 24 hours in the major.
3227	3.0- 3.0	73447	LEC	1A	MWF	01:00 - 01:50 pm	EMGT	00104	Dolan,K
									Prerequisite: English 1120 and a previous literature course.
3233	3.0- 3.0	73448	LEC	1A	TTh	02:00 - 03:15 pm	H-SS	00103	Swenson,K
									Prerequisites: English 1120 and a semester of college literature.
3302	3.0- 3.0	71785	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00316	Bryan,E
									Prerequisite: English 1120.
3560	3.0- 3.0	71219	LEC	1A	MWF	09:00 - 09:50 am	ARR		Roberson,E
	3.0- 3.0	72807	LEC	1B	MWF	10:00 - 10:50 am	SHNK	00140	Lee,Y
	3.0- 3.0	70542	LEC	1C	MWF	11:00 - 11:50 am	SHNK	00140	Roberson,E
	3.0- 3.0	70543	LEC	1D	MWF	01:00 - 01:50 pm	H-SS	00102	Bratch,L
	3.0- 3.0	70544	LEC	1E	MWF	02:00 - 02:50 pm	H-SS	00102	Ranade,A
	3.0- 3.0	72352	LEC	1F	TTh	11:00 - 12:15 pm	H-SS	00102	Covington,M
	3.0- 3.0	73520	LEC	1G	ARR	ARR	ARR		Malone,E
									Course meets first 8 weeks of the semester.
									UM Shared Course-Secondary

Enterprise Resource Planning

2110	Introduction to Enterprise Resource Planning Prerequisite: IS&T 1750.	3.0- 3.0	71727	LEC	1A	MWF	10:00 - 10:50 am	BCH	00313	Chiu,Y
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	71235	LEC	1A	TTh	09:30 - 10:45 am	FUL	00107A	Claybaugh,C
5210	Performance Dashboard, Scorecard and Data Visualization Prerequisite: ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	71450	LEC	1A	MWF	09:00 - 09:50 am	FUL	00107A	Lea,B
5240	Enterprise and Mobile Application Development Prerequisites: Programming knowledge and either ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	71948	LEC	1A	Th	04:00 - 06:30 pm	FUL	00107A	Claybaugh,C
5410	Use of Business Intelligence Prerequisites: IS&T 3423 or equivalent; ERP 2110 or preceded or accompanied by ERP 5110.	3.0- 3.0	73421	LEC	1A	MWF	11:00 - 11:50 am	FUL	00107A	Lea,B
6120	Enterprise Resource Planning: Systems Config and Integration Prerequisite: ERP 5110.	3.0- 3.0	71236	LEC	1A	W	04:00 - 06:30 pm	FUL	00107A	Lea,B
6444	Essentials of Data Warehouses Prerequisite: IS&T 3423 or equivalent relational database experience. (Co-listed with IS&T 6444)	3.0- 3.0	71633	LEC	1A	TTh	02:00 - 03:15 pm	FUL	00107A	Yu,W

Environmental Engineering

2601	Fundamentals of Environmental Engineering and Science (Co-listed with Civ Eng 2601)	3.0- 3.0		LEC	1A	MW	08:00 - 08:50 am	TMH	00199	Oerther,D
		3.0- 3.0	71476	LAB	3A1	M	01:00 - 03:50 pm	BCH	00209	Oerther,D
		3.0- 3.0	71477	LAB	3A2	T	01:00 - 03:50 pm	BCH	00209	Oerther,D
		3.0- 3.0	71715	LAB	3B1	W	01:00 - 03:50 pm	BCH	00209	Oerther,D
		3.0- 3.0	72819	LAB	3B2	Th	01:00 - 03:50 pm	BCH	00209	Oerther,D
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	72237	LEC	1A	MWF	11:00 - 11:50 am	BCH	00216	Fitch,M
3603	Chemical Fundamentals Of Environmental Engineering Prerequisites: Chem 1320 or Geology 3410; Physics 1135, Math 2222.	3.0- 3.0		LEC	1A	TTh	12:30 - 01:45 pm	BCH	00101	Wang,J
		3.0- 3.0	72259	LAB	3A	Th	02:00 - 03:50 pm	BCH	00121	Wang,J
4097	Senior Design Project Prerequisite: Civ Eng 4448 or Arch Eng 4448. (Co-listed with Arch Eng 4097 and Civ Eng 4097)	3.0- 3.0	71345	LEC	1A	M	01:00 - 03:50 pm	BCH	00120	Showalter,W
4099	Undergraduate Research	0.0- 6.0	71641	IND	6A	ARR	ARR	ARR		Burken,J
		0.0- 6.0	71683	IND	6B	ARR	ARR	ARR		Fitch,M
		0.0- 6.0	71684	IND	6C	ARR	ARR	ARR		Morrison,G
		0.0- 6.0	71685	IND	6D	ARR	ARR	ARR		Oerther,D
		0.0- 6.0	71686	IND	6E	ARR	ARR	ARR		Wang,J
4609	Research in Environmental Engineering Prerequisite: Env Eng or Civ Eng 3615.	1.0- 1.0	71230	LEC	1A	ARR	ARR	ARR		Burken,J
5000	Special Problems	0.0- 6.0	72521	IND	6A	ARR	ARR	ARR		Burken,J
5001	Special Topics	3.0- 3.0	73597	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00215	Oerther,D
				STEAM Diplomacy						
				Prerequisite: Junior or Senior standing.						
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
				LEC	1A	Th	04:00 - 04:50 pm	BCH	00216	
		3.0- 3.0	72024	LAB	3A	Th	05:00 - 05:50 pm	BCH	00209	Campbell,K

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5635 Phytoremediation and Natural Treatment Systems: Science and Design Prerequisites: Env Eng 3615 or Civ Eng 3615 or graduate standing.	3.0- 3.0	73199	LEC	1A	MWF	10:00 - 10:50 am	BCH	00213	Burken,J
5640 Environmental Law And Regulations (Co-listed with Civ Eng 5640)	3.0- 3.0	71432	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	72820	LEC	1A	TTh	11:00 - 12:15 pm	LIB	000G14	Oerther,D
5662 Air Pollution Control Methods Prerequisite: Civ Eng 3330 or equivalent; or graduate standing. (Co-listed with Civ Eng 5662)	3.0- 3.0	72272	LEC	1A	TTh	08:00 - 09:15 am	BCH	00209	Morrison,G
6000 Special Problems	0.0- 6.0	70340	IND	6A	ARR	ARR	ARR		Burken,J
	0.0- 6.0	70341	IND	6B	ARR	ARR	ARR		Fitch,M
	0.0- 6.0	70342	IND	6C	ARR	ARR	ARR		Morrison,G
	0.0- 6.0	71071	IND	6D	ARR	ARR	ARR		Oerther,D
	0.0- 6.0	71682	IND	6E	ARR	ARR	ARR		Wang,J
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70346	IND	6A	ARR	ARR	ARR		Burken,J
6099 Research	0.0-15.0	70343	IND	6A	ARR	ARR	ARR		Burken,J
	0.0-15.0	70344	IND	6B	ARR	ARR	ARR		Fitch,M
	0.0-15.0	70345	IND	6C	ARR	ARR	ARR		Morrison,G
	0.0-15.0	71072	IND	6D	ARR	ARR	ARR		Oerther,D
	0.0-15.0	71681	IND	6E	ARR	ARR	ARR		Wang,J
6611 Physicochemical Operations In Environmental Engineering Systems Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Civ Eng 6611 and Chem Eng 6330)	3.0- 3.0	71793	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	71960	LEC	1A	TTh	11:00 - 12:15 pm	FUL	00107A	Fitch,M

Etymology

4306 Introduction To Etymology Prerequisite: Any foreign language course or English 1120.	3.0- 3.0	73373	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	00104	Cohen,G
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Explosives Engineering

5112 Explosives Handling and Safety Prerequisite: Junior Standing or above.	3.0- 3.0	71696	LEC	1A	Th	04:00 - 06:30 pm	EECH	00239	Johnson,C
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	MCNT	00216	Worsey,P
	3.0- 3.0	71700	LAB	3A	Th	01:00 - 03:45 pm	MINE		Worsey,P
	3.0- 3.0	71701	LAB	3B	M	01:00 - 03:45 pm	MINE		Worsey,P
6070 Graduate Cooperative Experience Prerequisite: 12 hours Exp Eng coursework.	3.0- 3.0	71877	LAB	3A	ARR	ARR	ARR		Worsey,P
	3.0- 3.0	72974	LAB	3B	ARR	ARR	ARR		Johnson,C
6080 Industry Project Prerequisite: 12 hours Exp Eng coursework.	3.0- 3.0	71878	LAB	3A	ARR	ARR	ARR		Johnson,C
	3.0- 3.0	72972	LAB	3B	ARR	ARR	ARR		Lusk,B
	3.0- 3.0	73402	LAB	3C	ARR	ARR	ARR		Perry,K
	3.0- 3.0	73403	LAB	3D	ARR	ARR	ARR		Worsey,P
6099 Research Prerequisites: Consent of instructor required.	0.0-15.0	71869	IND	6A	ARR	ARR	ARR		Johnson,C
	0.0-15.0	71870	IND	6B	ARR	ARR	ARR		Lusk,B
	0.0-15.0	73404	IND	6C	ARR	ARR	ARR		Perry,K
	0.0-15.0	73405	IND	6D	ARR	ARR	ARR		Worsey,P

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6292 Research Methods Prerequisites: PhD students only. (Co-listed with Min Eng 6992)	3.0- 3.0	72538	LEC	1A	ARR	ARR	ARR		Lusk,B

Finance

2150 Corporate Finance I Prerequisites: Bus 1210 or Eng Mgt 2211.	3.0- 3.0	72868	LEC	1A	MWF	03:00 - 03:50 pm	BCH	00215	Read,D
	3.0- 3.0	71676	LEC	1B	TTh	12:30 - 01:45 pm	CH	00104	Zhang,H
3000 Special Problems Prerequisite: Consent of instructor required	0.0- 6.0	72001	IND	6A	ARR	ARR	ARR		
5260 Investments I Prerequisites: Finance 2150.	3.0- 3.0	71790	LEC	1A	TTh	09:30 - 10:45 am	EECH	00239	Zhang,H

French

1101 Elementary French I Prerequisite: Entrance requirements.	4.0- 4.0	72852	LEC	1A	MWF	09:00 - 09:50 am	EECH	00112	
			LEC	1A	ARR	ARR	ARR		Webster,C
1102 Elementary French II Prerequisite: French 1101.	4.0- 4.0	70547	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00202	Webster,C
			LEC	1A	ARR	ARR	ARR		
1180 Intermediate French Prerequisite: French 1102. One hour ARR	4.0- 4.0	73512	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00104	
			LEC	1A	ARR	ARR	ARR		
2000 Special Problems	0.0- 6.0	73601	IND	6A	ARR	ARR	ARR		Merfeld-Langston,A
2110 Basic French Conversation Prerequisite: French 1102.	2.0- 2.0	73511	LEC	1A	MW	09:00 - 09:50 am	H-SS	00104	Merfeld-Langston,A
4311 Advanced French Conversation French 2170.	3.0- 3.0	73513	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00104	Merfeld-Langston,A

Freshman Engineering

1100 Study And Careers In Engineering	1.0- 1.0	71886	LEC	1A	M	05:00 - 05:50 pm	EMGT	00103	Miller,F
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Geological Engineering

1119 Physical and Environmental Geology Laboratory Prerequisite: Preceded or accompanied by Geology 1110. (Co-listed with Geology 1119)	1.0- 1.0	72835	LAB	3A	M	01:00 - 03:50 pm	MCNT	00316	Grote,K
	1.0- 1.0	72836	LAB	3B	T	12:30 - 03:15 pm	MCNT	00316	Grote,K
	1.0- 1.0	72838	LAB	3C	Th	02:00 - 04:45 pm	MCNT	00316	Grote,K
1150 Physical and Environmental Geology Prerequisite: Entrance requirements. (Co-listed with Geology 1110)	3.0- 3.0	72834	LEC	1A	MWF	12:00 - 12:50 pm	MCNT	00204	Vandike,J
2000 Special Problems	0.0- 6.0	70550	IND	6A	ARR	ARR	ARR		Maerz,N
2002 Cooperative Work Training	1.0- 3.0	71891	IND	6A	ARR	ARR	ARR		
2110 Principles Of Geological Engineering Prerequisite: Sophomore standing in the GE program.	1.0- 1.0	70549	LEC	1A	ARR	ARR	ARR		Grote,K
2605 Statics and Mechanics of Geologic Materials Prerequisite: Permission of instructor.	3.0- 3.0	73506	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	00210	Gertsch,L
	3.0- 3.0	70552	LAB	3A	M	01:00 - 03:50 pm	MCNT	00265	Gertsch,L
	3.0- 3.0	71747	LAB	3B	W	01:00 - 03:50 pm	MCNT	00265	Gertsch,L
4000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	70553	IND	6A	ARR	ARR	ARR		Gertsch,L
	0.0- 6.0	70554	IND	6B	ARR	ARR	ARR		Grote,K
	0.0- 6.0	70555	IND	6C	ARR	ARR	ARR		Guggenberger,J
	0.0- 6.0	72839	IND	6D	ARR	ARR	ARR		Maerz,N
	0.0- 6.0	72840	IND	6E	ARR	ARR	ARR		
4010 Seminar Prerequisite: Senior standing. (Co-listed with Geology 4010, Pet Eng 4010)	0.5- 0.5	71874	RSD	2A	W	04:00 - 04:50 pm	MCNT	00204	Rogers,J
4099 Undergraduate Research	0.0- 6.0	70560	IND	6A	ARR	ARR	ARR		Anderson,N
4115 Statistical Methods in Geology and Engineering	3.0- 3.0	71339	LEC	1A	MWF	09:00 - 09:50 am	BCH	00213	Grote,K
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	71365	LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00B10	Awuah-Offei,K

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5085 Internship DE students only.	0.0-15.0	70570	IND	6A	ARR	ARR	ARR		Maerz,N
5099 Research	0.0-15.0	70565	IND	6A	ARR	ARR	ARR		Anderson,N
	0.0-15.0	70566	IND	6B	ARR	ARR	ARR		Gertsch,L
	0.0-15.0	70567	IND	6C	ARR	ARR	ARR		Grote,K
	0.0-15.0	70568	IND	6D	ARR	ARR	ARR		Guggenberger,J
	0.0-15.0	70569	IND	6E	ARR	ARR	ARR		Maerz,N
	0.0-15.0	71291	IND	6F	ARR	ARR	ARR		Rogers,J
	0.0-15.0	72715	IND	6G	ARR	ARR	ARR		
5144 Remote Sensing Technology Prerequisite: Geo Eng 3148. (Co-listed with Geology 4310)	3.0- 3.0		LEC	1A	M	06:00 - 07:50 pm	MCNT	00216	Witt,E
	3.0- 3.0	71274	LAB	3A	Th	03:30 - 06:15 pm	MCNT	000B14	Witt,E
5174 Geological Engineering Field Methods	3.0- 3.0	70558	LAB	3A	MW	12:00 - 12:50 pm	ARR		Guggenberger,J
			LAB	3A	W	01:00 - 03:50 pm	ARR		
5381 Intermediate Subsurface Hydrology And Contaminant Transport Mechs Prerequisites: Civ Eng 3330 & Geo Eng 5331.	3.0- 3.0	70559	LEC	1A	MWF	10:00 - 10:50 am	BCH	00314	Grote,K
5443 Subsurface Exploration Prerequisite: Geo Eng 1150.	3.0- 3.0		LEC	1A	M	04:00 - 06:30 pm	BCH	00213	Maerz,N
	3.0- 3.0	70557	LAB	3A	T	12:30 - 03:15 pm	MCNT	00265	Maerz,N
5782 Environmental and Engineering Geophysics Prerequisite: Math 2222. (Co-listed with Geophys 5782)	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	MCNT	00243	Torgashov,E
	3.0- 3.0	71502	LAB	3A	T	01:00 - 03:00 pm	CSF	00G5D	Anderson,N
6000 Special Problems	0.0- 6.0	70561	IND	6A	ARR	ARR	ARR		Anderson,N
	0.0- 6.0	70562	IND	6B	ARR	ARR	ARR		Elmore,A
	0.0- 6.0	70563	IND	6C	ARR	ARR	ARR		Gertsch,L
	0.0- 6.0	71216	IND	6D	ARR	ARR	ARR		Maerz,N
	0.0- 6.0	71412	IND	6E	ARR	ARR	ARR		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	70571	IND	6A	ARR	ARR	ARR		Rogers,J
6050 Continuous Registration	1.0- 1.0	72244	IND	6A	ARR	ARR	ARR		Rogers,J
6441 Geotechnical Construction Practice Prerequisite: Geo Eng 5441.	3.0- 3.0	70564	LEC	1A	W	07:00 - 09:30 pm	TMH	00260	Rogers,J
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		LEC	1A	Th	04:00 - 06:30 pm	BCH	00213	Anderson,N
	3.0- 3.0	71868	LAB	3A	Th	ARR	ARR		Anderson,N

Geology

1110 Physical And Environmental Geology Prerequisite: Entrance requirements. (Co-listed with Geo Eng 1150)	3.0- 3.0	73603	LEC	1A	MWF	12:00 - 12:50 pm	MCNT	00204	Vandike,J
1120 Evolution Of The Earth Prerequisites: Recommend Geo Eng 1150 or Geology 1110 or Bio Sci 1113 but not required.	3.0- 3.0	70572	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00216	Oboh Ikuenobe,F
			Field Trip Required						
1129 Evolution of the Earth Laboratory Prerequisite: Preceded or accompanied by Geology 1120	1.0- 1.0	71297	LAB	3A	T	02:00 - 04:45 pm	MCNT	00312	Oboh Ikuenobe,F
	1.0- 1.0	71763	LAB	3B	W	01:00 - 03:50 pm	MCNT	00312	Oboh Ikuenobe,F
2611 Physical Mineralogy And Petrology Prerequisites: Chem 1310 and Chem 1319 or Chem 1351; Geo Eng 1150 or Geology 1110.	3.0- 3.0		LEC	1A	MW	05:00 - 05:50 pm	MCNT	00204	Seeger,C
	3.0- 3.0	72020	LAB	3A	T	04:00 - 05:50 pm	MCNT	00308	Seeger,C
	3.0- 3.0	71402	LAB	3B	W	02:00 - 03:50 pm	MCNT	00308	Seeger,C
	3.0- 3.0	70574	LAB	3C	Th	02:00 - 03:50 pm	MCNT	00308	Seeger,C
	3.0- 3.0	71140	LAB	3D	Th	04:00 - 05:50 pm	MCNT	00308	Seeger,C
	3.0- 3.0	71640	LAB	3E	F	01:00 - 02:50 pm	MCNT	00308	Seeger,C
2620 Igneous And Metamorphic Petrology Prerequisite: Geology 2610.	4.0- 4.0		LEC	1A	MWF	09:00 - 09:50 am	MCNT	00265	Hogan,J
			Field Trip Required						
	4.0- 4.0	70576	LAB	3A	M	01:00 - 03:50 pm	MCNT	00108	Hogan,J
			Field Trip Required						
	4.0- 4.0	71122	LAB	3B	W	01:00 - 03:50 pm	MCNT	00108	Fredericks,J
			Field Trip Required						
3000 Special Problems	0.0- 6.0	70577	IND	6A	ARR	ARR	ARR		Hogan,J

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3410 Introduction To Geochemistry Prerequisite: Chem 1310.	3.0- 3.0	70582	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00204	Wronkiewicz,D
3620 Stratigraphy And Sedimentation Prerequisite: Geology 2620 or Geology 2611.	3.0- 3.0	70579	LEC	1A	MWF	11:00 - 11:50 am	H-SS	000G5	Obrist Famer,J
3629 Stratigraphy Lab Prerequisite: Concurrent with Geology 3620.	1.0- 1.0	70580	LAB	3A	F	01:00 - 03:50 pm	MCNT	00265	Obrist Famer,J
4000 Special Problems	0.0- 6.0	70583	IND	6A	ARR	ARR	ARR		Hogan,J
	0.0- 6.0	70584	IND	6B	ARR	ARR	ARR		Locmelis,M
	0.0- 6.0	70585	IND	6C	ARR	ARR	ARR		Oboh Ikuenobe,F
	0.0- 6.0	71227	IND	6D	ARR	ARR	ARR		Obrist Famer,J
	0.0- 6.0	73499	IND	6E	ARR	ARR	ARR		Yang,W
	0.0- 6.0	73607	IND	6F	ARR	ARR	ARR		Wronkiewicz,D
4010 Seminar Prerequisite: Senior standing. (Co-listed with Geo Eng 4010, Pet Eng 4010)	0.0- 6.0	70578	RSD	2A	M	04:00 - 04:50 pm	MCNT	00204	Liu,K
4099 Undergraduate Research	0.0- 6.0	71103	IND	6A	ARR	ARR	ARR		Hogan,J
	0.0- 6.0	70586	IND	6B	ARR	ARR	ARR		Locmelis,M
	0.0- 6.0	70587	IND	6C	ARR	ARR	ARR		Oboh Ikuenobe,F
	0.0- 6.0	70588	IND	6D	ARR	ARR	ARR		Obrist Famer,J
	0.0- 6.0	73500	IND	6E	ARR	ARR	ARR		Yang,W
4310 Remote Sensing Technology Prerequisite: Geo Eng 3148. (Co-listed with Geo Eng 5144)	3.0- 3.0		LEC	1A	M	06:00 - 07:50 pm	MCNT	00216	Witt,E
	3.0- 3.0	71331	LAB	3A	Th	03:30 - 06:15 pm	MCNT	000B14	Witt,E
4431 Methods Of Karst Hydrogeology Prerequisite: Geology 1110 or Geo Eng 1150; Geology 3620.	3.0- 3.0	70581	LEC	1A	W	06:00 - 08:45 pm	MCNT	000B10	Vandike,J
4521 Ore Microscopy Prerequisite: Geology 2610.	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	TMH	00250	Locmelis,M
	3.0- 3.0	73236	LAB	3A	M	01:00 - 03:50 pm	MCNT	00206	Locmelis,M
4841 Geological Field Studies	3.0- 3.0	72408	LEC	1A	W	04:00 - 06:00 pm	MCNT	00124	Wronkiewicz,D
5000 Special Problems	0.0- 6.0	71104	IND	6A	ARR	ARR	ARR		Hogan,J
	0.0- 6.0	70589	IND	6B	ARR	ARR	ARR		Locmelis,M
	0.0- 6.0	70590	IND	6C	ARR	ARR	ARR		Oboh Ikuenobe,F
	0.0- 6.0	70591	IND	6D	ARR	ARR	ARR		Obrist Famer,J
	0.0- 6.0	73501	IND	6E	ARR	ARR	ARR		Yang,W
5010 Seminar	0.0- 6.0	70592	RSD	2A	M	04:00 - 04:50 pm	MCNT	00204	Liu,K
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	70597	IND	6A	ARR	ARR	ARR		
5099 Research	0.0-15.0	70596	IND	6A	ARR	ARR	ARR		Hogan,J
	0.0-15.0	70593	IND	6B	ARR	ARR	ARR		Locmelis,M
	0.0-15.0	70594	IND	6C	ARR	ARR	ARR		Oboh Ikuenobe,F
	0.0-15.0	70595	IND	6D	ARR	ARR	ARR		Obrist Famer,J
	0.0-15.0	73502	IND	6E	ARR	ARR	ARR		Yang,W
5311 Depositional Systems Prerequisites: Geology 1110 or Geo Eng 1150; accompanied or preceded by both Geology 3310 and Geology 3620.	3.0- 3.0	71116	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00243	Yang,W
5611 Granites And Rhyolites Prerequisite: Geology 2620.	4.0- 4.0		LEC	1A	T	08:00 - 09:15 am	MCNT	00308	Hogan,J
	4.0- 4.0	73504	LAB	3A	ARR	ARR	ARR		Hogan,J
6040 Oral Examination	0.0- 0.0	72577	IND	6A	ARR	ARR	ARR		Oboh Ikuenobe,F
6050 Continuous Registration	1.0- 1.0	72224	IND	6A	ARR	ARR	ARR		Oboh Ikuenobe,F
6331 Geotectonics Prerequisite: Geology 3310.	3.0- 3.0	71391	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00206	Gao,S

Geophysics

4000 Special Problems Prerequisite: Consent of instructor.	0.0- 6.0	70598	IND	6A	ARR	ARR	ARR		Liu,K
	0.0- 6.0	70599	IND	6B	ARR	ARR	ARR		Gao,S
4096 Global Tectonics Prerequisite: Geology 3310.	3.0- 3.0	70600	LEC	1A	TTh	09:30 - 10:45 am	MCNT	00206	Gao,S
4099 Undergraduate Research	0.0- 6.0	70601	IND	6A	ARR	ARR	ARR		Anderson,N
	0.0- 6.0	70602	IND	6B	ARR	ARR	ARR		Gao,S

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5000 Special Problems	0.0- 6.0	71381	IND	6C	ARR	ARR	ARR		Liu,K
	0.0- 6.0	70603	IND	6A	ARR	ARR	ARR		Gao,S
	0.0- 6.0	71392	IND	6B	ARR	ARR	ARR		Liu,K
5010 Seminar	0.0- 6.0	70604	RSD	2A	M	04:00 - 04:50 pm	MCNT	00204	Liu,K
5040 Oral Examination	0.0- 0.0	70607	IND	6A	ARR	ARR	ARR		
Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.									
5099 Research	0.0-15.0	70605	IND	6A	ARR	ARR	ARR		Gao,S
	0.0-15.0	70606	IND	6B	ARR	ARR	ARR		Liu,K
5202 Exploration and Development Seismology	3.0- 3.0		LEC	1A	MW	01:00 - 01:50 pm	MCNT	000B14	Liu,K
Prerequisites: Math 1208 or Math 1214; Geology 1110 or Geo Eng 1150.									
	3.0- 3.0	71482	LAB	3A	W	02:00 - 03:00 pm	MCNT	000B14	
			LAB	3A	W	ARR	ARR		Liu,K
5782 Environmental and Engineering Geophysics	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	MCNT	00243	Torgashov,E
Prerequisite: Math 2222. (Co-listed with Geo Eng 5782)									
	3.0- 3.0	71500	LAB	3A	T	01:00 - 03:00 pm	CSF	00G5D	Anderson,N
6050 Continuous Registration	1.0- 1.0	70608	IND	6A	ARR	ARR	ARR		
Doctoral students only. Graduate Office permission required.									
6231 Advanced Seismic Data Processing	3.0- 3.0		LEC	1A	F	03:00 - 04:50 pm	MCNT	00216	Gao,S
Prerequisites: Geophys 4251, 5231, Stat 3115.									
	3.0- 3.0	72341	LAB	3A	ARR	ARR	ARR		Liu,L
6241 The Theory of Elastic Waves	3.0- 3.0		LEC	1A	M	02:00 - 03:50 pm	MCNT	00216	Liu,K
Prerequisites: Geophys 3210.									
	3.0- 3.0	72343	LAB	3A	ARR	ARR	ARR		Gao,S

German

1102 Elementary German II	4.0- 4.0	73371	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00203	Cohen,G
Prerequisite: German 1101.									
			LEC	1A	Th	10:00 - 10:50 am	H-SS	00202	
2170 Masterpieces Of German Literature	3.0- 3.0	73372	LEC	1A	MWF	01:00 - 01:50 pm	EMGT	00106	Cohen,G
Prerequisite: German 1180.									

History

1100 Early Western Civilization	3.0- 3.0	71322	LEC	1A	M	04:00 - 06:30 pm	H-SS	00101	Quinn,J
1200 Modern Western Civilization	3.0- 3.0	71933	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00101	Sheppard,K
	3.0- 3.0	73000	LEC	1B	TTh	12:30 - 01:45 pm	H-SS	00103	Rivera,J
	3.0- 3.0	73547	LEC	1C	MWF	10:00 - 10:50 am	H-SS	00201	Sheppard,K
1300 American History To 1877	3.0- 3.0	71934	LEC	1A	MW	01:00 - 01:50 pm	H-SS	00103	DeWitt,P
			LEC	1A	ARR	ARR	ARR		
	3.0- 3.0	73002	LEC	1B	MW	11:00 - 11:50 am	H-SS	00103	DeWitt,P
			LEC	1B	ARR	ARR	ARR		
1310 American History Since 1877	3.0- 3.0	72270	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00103	Ahmad,D
	3.0- 3.0	71595	LEC	1B	TTh	09:30 - 10:45 am	H-SS	00101	Gragg,L
	3.0- 3.0	73004	LEC	1C	TTh	02:00 - 03:15 pm	TMH	00250	Croft,D
	3.0- 3.0	71138	LEC	1D	TTh	03:30 - 04:45 pm	H-SS	00201	McManus,J
	3.0- 3.0	73005	LEC	1E	TTh	03:30 - 04:45 pm	TMH	00249	Croft,D
	3.0- 3.0	73003	LEC	1F	T	06:00 - 08:45 pm	H-SS	00101	Gragg,L
2110 World Regional Geography	3.0- 3.0	71652	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	00201	DeWitt,P
2510 History of Technology	3.0- 3.0	72222	LEC	1A	TTh	09:30 - 10:45 am	H-SS	00201	Schramm,J
Prerequisite: History 1100 or 1200 or 1300 or 1310.									
	3.0- 3.0	72223	LEC	1B	TTh	11:00 - 12:15 pm	H-SS	00101	Schramm,J
	3.0- 3.0	72998	LEC	1C	TTh	02:00 - 03:15 pm	CS	00202	Schramm,J
3130 Medieval History I	3.0- 3.0	73180	LEC	1A	TTh	03:30 - 04:45 pm	CSF	00G5D	Bruening,J
Prerequisite: History 1100.									
3340 Age Of Jefferson And Jackson	3.0- 3.0	73179	LEC	1A	MWF	09:00 - 09:50 am	H-SS	00103	Ahmad,D
Prerequisite: History 1300.									
3440 20th Century Americans In Combat	3.0- 3.0	72590	LEC	1A	Th	06:00 - 08:45 pm	H-SS	00201	McManus,J
Prerequisite: History 1300 or 1310 or 1200.									
3441 The United States In World War II	3.0- 3.0	73176	LEC	1A	T	06:00 - 08:45 pm	H-SS	00201	McManus,J
Prerequisite: History 1300 or 1310.									
3530 History of Science	3.0- 3.0	73548	LEC	1A	MWF	11:00 - 11:50 am	H-SS	00201	Sheppard,K
Prerequisite: Hist 1100 or Hist 1200 or Hist 1300 or 1310									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3660 Modern East Asia Prerequisite: History 1200 or History 1300 or History 1310.	3.0- 3.0	73399	LEC	1A	MWF	11:00 - 11:50 am	H-SS	00101	Ahmad,D
3762 American Diplomatic History Since World War II Prerequisite: History 1310 or Pol Sci 1200. (Co-listed with Pol Sci 3762)	3.0- 3.0	73178	LEC	1A	W	06:00 - 08:45 pm	H-SS	00101	Meagher,M
4000 Special Problems Prerequisite: Consent of instructor.	0.0- 6.0	70610	IND	6A	ARR	ARR	ARR		Ahmad,D
	0.0- 6.0	70611	IND	6B	ARR	ARR	ARR		DeWitt,P
	0.0- 6.0	70612	IND	6C	ARR	ARR	ARR		Huber,P
	0.0- 6.0	70613	IND	6D	ARR	ARR	ARR		McManus,J
	0.0- 6.0	71782	IND	6E	ARR	ARR	ARR		Schramm,J
	0.0- 6.0	71871	IND	6F	ARR	ARR	ARR		Sheppard,K
4001 Special Topics	3.0- 3.0	73181	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00104	Gragg,L
									History of Las Vegas, Nevada Prerequisites: History 1300 or History 1310.
	3.0- 3.0	73551	LEC	1B	ARR	ARR	ARR		Schramm,J
									Social Informatics UM Shared Course-Secondary
4085 Internship Prerequisites: Senior status; must have completed 24 hours in major.	0.0- 6.0	70614	IND	6A	ARR	ARR	ARR		Huber,P
4097 Senior Project Prerequisites: History 2790 and senior standing.	3.0- 3.0	71866	LEC	1A	ARR	ARR	ARR		Fogg,S
4246 War and Society in Twentieth-Century Europe Prerequisite: History 1200 or History 1310.	3.0- 3.0	73182	LEC	1A	TTh	09:30 - 10:45 am	H-SS	00103	Fogg,S

Info Science & Technology

1551 Implementing Information Systems: User Perspective	3.0- 3.0	70615	LEC	1A	MWF	09:00 - 09:50 am	TMH	00251	Bates,C
1552 Implementing Information Systems: Data Perspective Prerequisite: IS&T 1551.	3.0- 3.0	70618	LEC	1A	MWF	08:00 - 08:50 am	TMH	00251	Hilgers,M
1750 Introduction to Management Information Systems	3.0- 3.0		LEC	1A	MF	01:00 - 01:50 pm	TMH	00251	Chiu,Y
	3.0- 3.0	70617	LAB	3A	W	01:00 - 01:50 pm	TMH	00251	Chiu,Y
3000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	70621	IND	6A	ARR	ARR	ARR		Flachsbart,B
	0.0- 6.0	71039	IND	6B	ARR	ARR	ARR		Hilgers,M
	0.0- 6.0	71152	IND	6C	ARR	ARR	ARR		Nah,F
	0.0- 6.0	71225	IND	6D	ARR	ARR	ARR		Yu,W
3131 Computing Internals And Operating Systems Prerequisite: IS&T 1552 or Comp Sci 1510.	3.0- 3.0	70619	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00254	Flachsbart,B
3333 Data Networks and Information Security Prerequisites: IS&T 1750; IS&T 1552 or Comp Sci 1510.	3.0- 3.0	73422	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00313	Twyman,N
3343 Systems Analysis Prerequisite: IS&T 3423.	3.0- 3.0	71065	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00313	Yu,W
4099 Undergraduate Research	0.0- 6.0	70622	IND	6A	ARR	ARR	ARR		Hall,R
	0.0- 6.0	71498	IND	6B	ARR	ARR	ARR		Lea,B
	0.0- 6.0	71994	IND	6C	ARR	ARR	ARR		Nah,F
4257 Network Economy Prerequisite: Econ 1100 or Econ 1200. (Co-listed with Econ 4130)	3.0- 3.0	73173	LEC	1A	TTh	02:00 - 03:15 pm	HARR	00107	Park,E
4261 Information Systems Project Management Prerequisites: IST 1552 or Comp Sci 1510; Senior Standing.	3.0- 3.0	71050	LEC	1A	T	07:00 - 09:30 pm	FUL	00107A	Flachsbart,B
4335 Fundamentals of Mobile Technology for Business Prerequisites: IS&T 3333.	3.0- 3.0	71991	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00260	Bates,C
4641 Electronic and Mobile Commerce Prerequisites: IS&T 1750 and at least Sophomore standing.	3.0- 3.0	70620	LEC	1A	MWF	02:00 - 02:50 pm	FUL	00107A	Nah,F

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4654 Web and Digital Media Development	3.0- 3.0	71446	LEC	1A	TTh	11:00 - 12:15 pm	CSF	00114	Hall,R
5000 Special Problems	0.0- 6.0	71539	IND	6A	ARR	ARR	ARR		Hilgers,M
	0.0- 6.0	71540	IND	6B	ARR	ARR	ARR		Lea,B
	0.0- 6.0	71762	IND	6C	ARR	ARR	ARR		Yu,W
5001 Special Topics	3.0- 3.0	73423	LEC	1A	MWF	10:00 - 10:50 am	LIB	000G14	Chen,L
									Data Methods in Python
									Prerequisites: One of Stat 3111, Stat 3113, Stat 3115, Stat 3117 and either IS&T 1552 or Comp Sci 1510; or graduate standing and knowledge of calculus, statistics, and programming.
5099 Research	0.0-15.0	71042	IND	6A	ARR	ARR	ARR		Flachsbart,B
	0.0-15.0	71043	IND	6B	ARR	ARR	ARR		Hall,R
	0.0-15.0	71044	IND	6C	ARR	ARR	ARR		Hilgers,M
	0.0-15.0	71045	IND	6D	ARR	ARR	ARR		Lea,B
	0.0-15.0	71210	IND	6E	ARR	ARR	ARR		Nah,F
	0.0-15.0	71314	IND	6F	ARR	ARR	ARR		Siau,K
	0.0-15.0	72159	IND	6G	ARR	ARR	ARR		Twyman,N
	0.0-15.0	73424	IND	6H	ARR	ARR	ARR		Yu,W
5251 Technological Innovation Management and Leadership	3.0- 3.0	71728	LEC	1A	M	07:00 - 09:30 pm	FUL	00107A	Nah,F
									Prerequisite: Senior or Graduate Standing.
5420 Business Analytics and Data Science	3.0- 3.0	72406	LEC	1A	MWF	01:00 - 01:50 pm	BCH	00213	Hilgers,M
									Prerequisites: Calculus, Statistics, and Programming knowledge.
5885 Human-Computer Interaction	3.0- 3.0	72265	LEC	1A	MWF	02:00 - 02:50 pm	TMH	00260	Bates,C
									Prerequisite: Psych 1101.
5887 Human-Computer Interaction Evaluation	3.0- 3.0		LEC	1A	ARR	ARR	ARR		Hall,R
	3.0- 3.0	71067	LAB	3A	ARR	ARR	ARR		Hall,R
									Prerequisite: Preceded or accompanied by IS&T 5885.
6261 Advanced Information Systems Project Management	3.0- 3.0	71729	LEC	1A	T	07:00 - 09:30 pm	FUL	00107A	Flachsbart,B
									Prerequisites: IS&T MS Entrance requirements, with strong programming knowledge.
6335 Mobile Technology for Business	3.0- 3.0	71950	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00260	Bates,C
									Prerequisites: IS&T 3333 or equivalent.
6336 Foundations of Internet Computing	3.0- 3.0	72596	LEC	1A	TTh	08:00 - 09:15 am	FUL	00107A	Twyman,N
									Prerequisite: IS&T MS entrance requirements, including solid programming knowledge.
6444 Essentials of Data Warehouses	3.0- 3.0	71448	LEC	1A	TTh	02:00 - 03:15 pm	FUL	00107A	Yu,W
									Prerequisite: IS&T 3423 or equivalent relational database experience. (Co-listed with ERP 6444)
6445 Database Marketing	3.0- 3.0	71773	LEC	1A	W	07:00 - 09:30 pm	BERTELS	00B12A	Merz,C
									Prerequisite: Statistics understanding, programming understanding, familiarity with spreadsheets.
6641 Advanced Electronic and Mobile Commerce	3.0- 3.0	72096	LEC	1A	MWF	02:00 - 02:50 pm	FUL	00107A	Nah,F
									Prerequisites: Knowledge of management information systems.
6654 Advanced Web and Digital Media Development	3.0- 3.0	72405	LEC	1A	TTh	11:00 - 12:15 pm	CSF	00114	Hall,R
Marketing									
3000 Special Problems	0.0- 6.0	72158	IND	6A	ARR	ARR	ARR		Stanley,S
									Prerequisite: Consent of instructor required.
3110 Marketing	3.0- 3.0	71463	LEC	1A	MWF	10:00 - 10:50 am	BCH	00124	Stanley,S
3210 Consumer Behavior	3.0- 3.0	72093	LEC	1A	TTh	02:00 - 03:15 pm	CS	00203	Fukawa,N
									Prerequisite: MKT 3110.
5001 Special Topics	3.0- 3.0	73536	LEC	1A	TTh	11:00 - 12:15 pm	CS	00202	Fukawa,N
									Prerequisite: Bus 6622 or both MKT 3110 and Stat 3111.

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5099 Research Prerequisite: Consent of instructor required.	0.0- 9.0	71749	IND	6A	ARR	ARR	ARR		Fukawa,N

Materials Science & Eng

5000 Special Problems	0.0- 6.0	71253	IND	6A	ARR	ARR	ARR		Hilmas,G
	0.0- 6.0	71319	IND	6B	ARR	ARR	ARR		Miller,F
	0.0- 6.0	71538	IND	6C	ARR	ARR	ARR		Rahaman,M
5010 Seminar	0.0- 6.0	71204	RSD	2A	Th	03:00 - 04:50 pm	MCNT	00204	Hilmas,G
5040 Oral Examination	0.0- 0.0	71523	IND	6A	ARR	ARR	ARR		Huebner,W
5210 Tissue Engineering I Prerequisite: Senior standing. (Co-listed with Bio Sci 5240)	3.0- 3.0	72086	LEC	1A	TTh	12:30 - 01:45 pm	EMGT	00106	Semon,J
5230 Energy Materials Prerequisite: Senior standing.	3.0- 3.0	71905	LEC	1A	M	07:00 - 09:30 pm	MCNT	00211	Dogan,F
6000 Special Problems	0.0- 6.0	72554	IND	6A	ARR	ARR	ARR		Huebner,W
6050 Continuous Registration	1.0- 1.0	71524	IND	6A	ARR	ARR	ARR		Huebner,W
6099 Research	0.0-15.0	72930	IND	6A	ARR	ARR	ARR		Asle Zaeem,M
	0.0-15.0	72931	IND	6B	ARR	ARR	ARR		Bartlett,L
	0.0-15.0	72932	IND	6C	ARR	ARR	ARR		Brow,R
	0.0-15.0	72933	IND	6D	ARR	ARR	ARR		Dogan,F
	0.0-15.0	72934	IND	6E	ARR	ARR	ARR		Fahrenheitz,W
	0.0-15.0	72935	IND	6F	ARR	ARR	ARR		Hilmas,G
	0.0-15.0	72936	IND	6G	ARR	ARR	ARR		Huebner,W
	0.0-15.0	72937	IND	6H	ARR	ARR	ARR		Kumar,A
	0.0-15.0	72938	IND	6J	ARR	ARR	ARR		Moats,M
	0.0-15.0	72939	IND	6K	ARR	ARR	ARR		Newkirk,J
	0.0-15.0	72940	IND	6L	ARR	ARR	ARR		O'Keefe,M
	0.0-15.0	72941	IND	6M	ARR	ARR	ARR		O'Malley,R
	0.0-15.0	72942	IND	6N	ARR	ARR	ARR		Rahaman,M
	0.0-15.0	72943	IND	6P	ARR	ARR	ARR		Richards,V
	0.0-15.0	72944	IND	6Q	ARR	ARR	ARR		Schlesinger,M
	0.0-15.0	72945	IND	6R	ARR	ARR	ARR		Smith,J
	0.0-15.0	73188	IND	6T	ARR	ARR	ARR		Van Aken,D
	0.0-15.0	73395	IND	6U	ARR	ARR	ARR		Zhou,C
6130 Kinetic Theory for Materials Prerequisite: Graduate standing, or undergraduate standing with instructor and advisor approval.	3.0- 3.0	72354	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00245	O'Malley,R
6210 Tissue Engineering II Prerequisite: Graduate standing. (Co-listed with Bio Sci 6240)	3.0- 3.0	72088	LEC	1A	TTh	12:30 - 01:45 pm	EMGT	00106	Semon,J
6220 Advanced Energy Materials Prerequisite: Graduate standing.	3.0- 3.0	71906	LEC	1A	M	07:00 - 09:30 pm	MCNT	00211	Dogan,F

Mathematics

1103 Fundamentals Of Algebra Prerequisite: Entrance requirements.	3.0- 3.0	71257	LEC	1A	MWF	11:00 - 11:50 am	TMH	00295	
1120 College Algebra Prerequisite: By placement examination.	5.0- 5.0	70623	LEC	1A	MWF	10:00 - 10:50 am	BERTELS	00B10	
			LEC	1A	T	12:30 - 01:20 pm	BERTELS	00B12A	
			LEC	1A	ARR	ARR	ARR		
	5.0- 5.0	71583	LEC	1B	MWF	10:00 - 10:50 am	BERTELS	00B10	
			LEC	1B	T	01:30 - 02:20 pm	BERTELS	00B12A	
			LEC	1B	ARR	ARR	ARR		
	5.0- 5.0	71256	LEC	1C	MWF	10:00 - 10:50 am	BERTELS	00B10	
			LEC	1C	T	02:30 - 03:20 pm	BERTELS	00B12A	
			LEC	1C	ARR	ARR	ARR		
	5.0- 5.0	72267	LEC	1D	MWF	10:00 - 10:50 am	BERTELS	00B10	
			LEC	1D	Th	12:30 - 01:20 pm	TMH	00250	
			LEC	1D	ARR	ARR	ARR		
	5.0- 5.0	72268	LEC	1E	MWF	10:00 - 10:50 am	BERTELS	00B12B	
			LEC	1E	Th	01:30 - 02:20 pm	BERTELS	00B12B	
			LEC	1E	ARR	ARR	ARR		
	5.0- 5.0	72269	LEC	1F	MWF	10:00 - 10:50 am	BERTELS	00B12B	
			LEC	1F	Th	02:30 - 03:20 pm	BERTELS	00B12B	
			LEC	1F	ARR	ARR	ARR		

1140	College Algebra Prerequisite: By placement examination. Class will meet daily Jan. 17 through March 14. Final exam Wed., March 15th 4:00-6:00 pm.	3.0- 3.0	70624	LEC	1A	MTWThF	08:00 - 08:50 am	CH	00104	
										"Restricted enrollment: contact math department for more information".
1160	Trigonometry Prerequisite: Math 1120 or 1140 with a grade of "C" or better; or by placement exam. Sections C, D, E, F, G, and H meet MWF with final exam Thu., Apr. 20th 4:00-6:00 pm. Sections C, D, E, F, G, and H begin Mon., Feb. 6th and section A begins Tue., Mar. 21st. Section A meets daily until the end of the semester.	2.0- 2.0	70627	LEC	1A	ARR	ARR	ARR		
		2.0- 2.0	70625	LEC	1C	MWF	08:00 - 08:50 am	CS	00202	
		2.0- 2.0	70626	LEC	1D	MWF	09:00 - 09:50 am	TMH	00250	
		2.0- 2.0	71261	LEC	1E	MWF	10:00 - 10:50 am	CS	00202	
		2.0- 2.0	71262	LEC	1F	MWF	01:00 - 01:50 pm	EECH	00101	
		2.0- 2.0	72155	LEC	1G	MWF	01:00 - 01:50 pm	BCH	00101	
		2.0- 2.0	72520	LEC	1H	MWF	09:00 - 09:50 am	BERTELS	00B12B	
1190	Success for Calculus Prerequisites: Consent of instructor.	4.0- 4.0		LEC	1A	MWF	10:00 - 10:50 am	ROLLA	000G5	
		4.0- 4.0		LEC	1B	MWF	11:00 - 11:50 am	ROLLA	000G5	
		4.0- 4.0		LEC	1C	MWF	01:00 - 01:50 pm	ROLLA	000G5	
		4.0- 4.0	73528	LAB	3A	ARR	ARR	ARR		
		4.0- 4.0	73530	LAB	3B	ARR	ARR	ARR		
		4.0- 4.0	73532	LAB	3C	ARR	ARR	ARR		
1212	Business Calculus Prerequisite: A grade of "C" or better in either 1120 or Math 1140; or by placement exam.	4.0- 4.0		LEC	1A	MWF	02:00 - 02:50 pm	BCH	00101	Fitch,S
		4.0- 4.0	70630	LAB	3A	TTh	02:00 - 02:50 pm	BCH	00101	Fitch,S
1214	Calculus For Engineers I Prerequisites: A grade of "C" or better in both Math 1160 and one of Math 1120 or Math 1140; or by placement exam. All students in Math 1214 are scheduled for exams at 5:00pm on Tues., Feb. 7, Mar. 7, Apr. 4, and May 2. Students in Math 1214 must enroll in a lab first then a lecture.	0.0- 0.0	72717	LEC	1A	MWF	10:00 - 10:50 am	TMH	00199	
										See 'Notes' for Evening Exams
		0.0- 0.0	72718	LEC	1B	MWF	11:00 - 11:50 am	BCH	00125	
										See 'Notes' for Evening Exams
		0.0- 0.0	72719	LEC	1C	MWF	01:00 - 01:50 pm	BCH	00125	
										See 'Notes' for Evening Exams
		4.0- 4.0	72720	LAB	3A	T	08:00 - 09:15 am	ROLLA	000G5	
										See 'Notes' for Evening Exams
		4.0- 4.0	72721	LAB	3B	T	09:30 - 10:45 am	ROLLA	000G5	
										See 'Notes' for Evening Exams
		4.0- 4.0	72722	LAB	3C	T	11:00 - 12:15 pm	ROLLA	000G5	
										See 'Notes' for Evening Exams
		4.0- 4.0	72723	LAB	3D	T	12:30 - 01:45 pm	ROLLA	000G5	
										See 'Notes' for Evening Exams
		4.0- 4.0	72724	LAB	3E	Th	08:00 - 09:15 am	ROLLA	000G5	
										See 'Notes' for Evening Exams
		4.0- 4.0	72725	LAB	3F	Th	09:30 - 10:45 am	ROLLA	000G5	
										See 'Notes' for Evening Exams
		4.0- 4.0	72726	LAB	3G	Th	11:00 - 12:15 pm	ROLLA	000G5	
										See 'Notes' for Evening Exams
		4.0- 4.0	72727	LAB	3H	Th	12:30 - 01:45 pm	ROLLA	000G5	
										See 'Notes' for Evening Exams
		4.0- 4.0	72728	LAB	3J	T	02:00 - 03:15 pm	PHYS	00127	
										See 'Notes' for Evening Exams
		4.0- 4.0	72729	LAB	3K	T	03:30 - 04:45 pm	PHYS	00127	
										See 'Notes' for Evening Exams
		4.0- 4.0	72730	LAB	3L	Th	02:00 - 03:15 pm	PHYS	00127	
										See 'Notes' for Evening Exams
		4.0- 4.0	72731	LAB	3M	Th	03:30 - 04:45 pm	PHYS	00127	
										See 'Notes' for Evening Exams
		4.0- 4.0	72732	LAB	3N	T	06:00 - 07:15 pm	PHYS	00127	
										See 'Notes' for Evening Exams
		4.0- 4.0	72733	LAB	3P	T	07:30 - 08:45 pm	PHYS	00127	
										See 'Notes' for Evening Exams
		4.0- 4.0	72734	LAB	3Q	Th	06:00 - 07:15 pm	PHYS	00127	
										See 'Notes' for Evening Exams
		4.0- 4.0	72735	LAB	3R	Th	07:30 - 08:45 pm	PHYS	00127	
										See 'Notes' for Evening Exams
		4.0- 4.0	73047	LAB	3T	Th	08:00 - 09:15 am	CS	00204	
										See 'Notes' for Evening Exams
		4.0- 4.0	73048	LAB	3U	Th	09:30 - 10:45 am	CS	00204	
										See 'Notes' for Evening Exams

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
1215 Calculus For Engineers II Prerequisites: Math 1160 and either Math 1208 or Math 1214 both with a grade of "C" or better; or by placement exam. All students in Math 1215 are scheduled for exams at 5:00pm on Thur., Feb. 2, Thur., Feb. 23, Thur., Mar. 23, Thur., Apr. 27. Students in Math 1215 must enroll in a lab first then a lecture. Math 1215 is a clicker class.	0.0- 0.0	72736	LEC	1A	MWF	09:00 - 09:50 am	BCH	00125		
		0.0- 0.0	72737	LEC	1B	MWF	10:00 - 10:50 am	BCH	00125	
		0.0- 0.0	72738	LEC	1C	MWF	12:00 - 12:50 pm	TMH	00199	
		4.0- 4.0	72739	LAB	3A	T	08:00 - 09:15 am	CS	00202	
		4.0- 4.0	72740	LAB	3B	T	09:30 - 10:45 am	CS	00202	
		4.0- 4.0	72741	LAB	3C	Th	08:00 - 09:15 am	CS	00202	
		4.0- 4.0	72742	LAB	3D	Th	09:30 - 10:45 am	CS	00202	
		4.0- 4.0	72743	LAB	3E	T	08:00 - 09:15 am	CS	00204	
		4.0- 4.0	72744	LAB	3F	T	09:30 - 10:45 am	CS	00204	
		4.0- 4.0	72745	LAB	3G	T	11:00 - 12:15 pm	CS	00204	
		4.0- 4.0	72746	LAB	3H	T	12:30 - 01:45 pm	CS	00204	
		4.0- 4.0	72747	LAB	3L	Th	11:00 - 12:15 pm	CS	00204	
	4.0- 4.0	72748	LAB	3M	Th	12:30 - 01:45 pm	CS	00204		
	4.0- 4.0	72749	LAB	3N	T	02:00 - 03:15 pm	EECH	00111		
	4.0- 4.0	72750	LAB	3P	T	03:30 - 04:45 pm	EECH	00111		
	4.0- 4.0	72751	LAB	3Q	Th	02:00 - 03:15 pm	EECH	00111		
	4.0- 4.0	72752	LAB	3R	Th	03:30 - 04:45 pm	EECH	00111		
	4.0- 4.0	72753	LAB	3T	T	02:00 - 03:15 pm	BCH	00216		
	4.0- 4.0	72754	LAB	3U	T	03:30 - 04:45 pm	EECH	00103		
	4.0- 4.0	72755	LAB	3V	Th	02:00 - 03:15 pm	BCH	00216		
	4.0- 4.0	72756	LAB	3W	Th	03:30 - 04:45 pm	EECH	00103		
2002 Cooperative Work Training	0.0- 6.0	70632	IND	6A	ARR	ARR	ARR		Clark,S	
2222 Calculus with Analytic Geometry III Prerequisites: Math 1215 or Math 1221 with a grade of "C" or better. All students in Math 2222 are scheduled for exams at 5:00pm on Mon., Feb. 13, Mon., Mar. 13, Mon., Apr 10, Mon., May 1st. Students in Math 2222 must enroll in lab and lecture.	0.0- 0.0	73239	LEC	1A	MWF	09:00 - 09:50 am	TMH	00199		
	0.0- 0.0	73240	LEC	1B	MWF	12:00 - 12:50 pm	BERTELS	00B10		
	0.0- 0.0	73241	LEC	1C	MWF	01:00 - 01:50 pm	BERTELS	00B10		
	4.0- 4.0	73242	LAB	3A	T	08:00 - 09:15 am	BCH	00314		
	4.0- 4.0	73243	LAB	3B	T	09:30 - 10:45 am	BCH	00216		
	4.0- 4.0	73244	LAB	3C	T	11:00 - 12:15 pm	BCH	00314		
	4.0- 4.0	73245	LAB	3D	Th	08:00 - 09:15 am	BCH	00314		
	4.0- 4.0	73246	LAB	3E	Th	09:30 - 10:45 am	BCH	00216		
	4.0- 4.0	73247	LAB	3F	Th	11:00 - 12:15 pm	BCH	00314		
	4.0- 4.0	73248	LAB	3G	T	02:00 - 03:15 pm	CSF	00G5E		
	4.0- 4.0	73249	LAB	3H	Th	02:00 - 03:15 pm	CSF	00G5E		

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	4.0- 4.0	73250	LAB	3J	T	08:00 - 09:15 am	CSF	00G5D		
			See 'Notes' for Evening Exams							
	4.0- 4.0	73251	LAB	3K	T	12:30 - 01:45 pm	IDE	00206		
			See 'Notes' for Evening Exams							
	4.0- 4.0	73252	LAB	3L	Th	08:00 - 09:15 am	CSF	00G5D		
			See 'Notes' for Evening Exams							
	4.0- 4.0	73253	LAB	3M	Th	12:30 - 01:45 pm	IDE	00206		
			See 'Notes' for Evening Exams							
	4.0- 4.0	73254	LAB	3N	T	02:00 - 03:15 pm	IDE	00206		
			See 'Notes' for Evening Exams							
	4.0- 4.0	73255	LAB	3P	T	03:30 - 04:45 pm	IDE	00206		
			See 'Notes' for Evening Exams							
	4.0- 4.0	73256	LAB	3Q	Th	02:00 - 03:15 pm	IDE	00206		
			See 'Notes' for Evening Exams							
	4.0- 4.0	73257	LAB	3R	Th	03:30 - 04:45 pm	IDE	00206		
			See 'Notes' for Evening Exams							
3000	Special Problems	0.0- 6.0	IND	6A	ARR	ARR	ARR			
3108	Linear Algebra I Prerequisite: Math 1215 or 1221 or 2222 with a grade of "C" or better.	3.0- 3.0	70639	LEC	1A	MWF	09:00 - 09:50 am	CSF	00G5E	
		3.0- 3.0	70640	LEC	1B	MWF	10:00 - 10:50 am	CSF	00G5E	
		3.0- 3.0	70641	LEC	1C	MWF	02:00 - 02:50 pm	TMH	00199	
3109	Foundations Of Mathematics Prerequisite: Math 1215 or 1221 with a grade of "C" or better.	3.0- 3.0	70642	LEC	1A	MWF	09:00 - 09:50 am	ROLLA	000G5	Roe,R
3304	Elementary Differential Equations Prerequisite: Math 2222 with a grade of "C" or better. All students in Math 3304 are scheduled for common exams at 5:00pm on Thursday, Feb. 23; Mar. 23; and Apr. 27.	3.0- 3.0	70633	LEC	1A	MWF	09:00 - 09:50 am	FUL	00227	
			See 'Notes' for Evening Exams							
		3.0- 3.0	70634	LEC	1B	MWF	10:00 - 10:50 am	CS	00216	
			See 'Notes' for Evening Exams							
		3.0- 3.0	70635	LEC	1C	MWF	10:00 - 10:50 am	CSF	00G5D	
			See 'Notes' for Evening Exams							
		3.0- 3.0	70636	LEC	1D	MWF	10:00 - 10:50 am	FUL	00227	
			See 'Notes' for Evening Exams							
		3.0- 3.0	70637	LEC	1E	MWF	11:00 - 11:50 am	MCNT	00206	
			See 'Notes' for Evening Exams							
		3.0- 3.0	70638	LEC	1F	MWF	01:00 - 01:50 pm	FUL	00227	
			See 'Notes' for Evening Exams							
		3.0- 3.0	71629	LEC	1G	MWF	02:00 - 02:50 pm	TMH	00250	
			See 'Notes' for Evening Exams							
		3.0- 3.0	71263	LEC	1H	TTh	09:30 - 10:45 am	FUL	00227	
			See 'Notes' for Evening Exams							
		3.0- 3.0	71298	LEC	1J	TTh	11:00 - 12:15 pm	TMH	00256	
			See 'Notes' for Evening Exams							
		3.0- 3.0	72221	LEC	1K	MWF	11:00 - 11:50 am	CSF	00G5D	
		3.0- 3.0	72638	LEC	1L	MWF	09:00 - 09:50 am	CS	00202	
4000	Special Problems	0.0- 6.0	70643	IND	6A	ARR	ARR	ARR	Insall,E	
		0.0- 6.0	70644	IND	6B	ARR	ARR	ARR	Singler,J	
4099	Undergraduate Research Prerequisite: Consent of instructor.	0.0- 6.0	71504	IND	6A	ARR	ARR	ARR	Charatonik,W	
		0.0- 6.0	71746	IND	6B	ARR	ARR	ARR	Insall,E	
		0.0- 6.0	72144	IND	6C	ARR	ARR	ARR	Zhang, Y	
4209	Advanced Calculus I Prerequisite: Math 2222 and Math 3109, or a 4000-level or higher mathematics course, or graduate standing.	3.0- 3.0	71361	LEC	1A	MWF	02:00 - 02:50 pm	ROLLA	000G5	Le,V
			Communication Emphasized							
4211	Advanced Calculus II Prerequisite: Math 4209.	3.0- 3.0	70646	LEC	1A	MWF	02:00 - 02:50 pm	CSF	00G5D	Insall,E
4530	Topics In Geometry Prerequisites: MATH 3108.	3.0- 3.0	70649	LEC	1A	MWF	08:00 - 08:50 am	ROLLA	000G4	Roe,R
5040	Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70657	IND	6A	ARR	ARR	ARR		
5106	Modern Algebra II Prerequisite: Math 5105.	3.0- 3.0	73258	LEC	1A	TTh	12:30 - 01:45 pm	ROLLA	000G4	Morgan,I
			Communication Emphasized							
5107	Combinatorics And Graph Theory Prerequisite: Comp Sci 1200 or Math 3109.	3.0- 3.0	70645	LEC	1A	TTh	02:00 - 03:15 pm	ROLLA	000G5	Brigham,R

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5108	Linear Algebra II Prerequisite: Math 3108.	3.0- 3.0	72436	LEC	1A	TTh	03:30 - 04:45 pm	ROLLA	000G4	Morgan,I
										Communication Emphasized
5215	Introduction To Real Analysis Prerequisite: Math 4209.	3.0- 3.0	70647	LEC	1A	MWF	11:00 - 11:50 am	ROLLA	000G4	Grow,D
5222	Vector And Tensor Analysis Prerequisite: Math 2222; Math 3103 or Math 3108.	3.0- 3.0	72285	LEC	1A	CANCELLED				
5325	Partial Differential Equations Prerequisite: Math 3304 with a grade of "C" or better.	3.0- 3.0	70648	LEC	1A	MWF	09:00 - 09:50 am	CSF	00G5D	Le,V
5530	Topics in Geometry - Graduate Option Prerequisites: MATH 3108.	3.0- 3.0	73259	LEC	1A	MWF	08:00 - 08:50 am	ROLLA	000G4	Roe,R
5585	Introduction To Topology Prerequisite: Math 4209.	3.0- 3.0	72964	LEC	1A	MWF	01:00 - 01:50 pm	SHNK	00139	Charatonik,W
5604	Introduction to Numerical Methods for Differential Equations Prerequisites: MATH 3304 and programming competency (preferably Matlab).	3.0- 3.0	72439	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00215	Zhang, Y
5737	Financial Mathematics Prerequisites: Math 1215 or Math 1221, Econ 2100 or Econ 2200 or Finance 2150 or Finance 5160, Stat 3111 or Stat 3113 or Stat 3115 or Stat 3117 or Stat 5643. (Co-listed with Econ 5337)	3.0- 3.0	71271	LEC	1A	MWF	10:00 - 10:50 am	EMGT	00106	Gelles,G
6000	Special Problems	0.0- 6.0	70651	IND	6A	ARR	ARR	ARR		Akin,E
		0.0- 6.0	70652	IND	6B	ARR	ARR	ARR		Insall,E
		0.0- 6.0	71887	IND	6C	ARR	ARR	ARR		Le,V
		0.0- 6.0	71909	IND	6D	ARR	ARR	ARR		Roe,R
		0.0- 6.0	73082	IND	6E	ARR	ARR	ARR		
6010	Graduate Seminar	1.0- 3.0	71275	RSD	2A	ARR	ARR	ARR		Adekpedjou,A
		1.0- 3.0	71282	RSD	2B	ARR	ARR	ARR		Bohner,M
		1.0- 3.0	72965	RSD	2C	ARR	ARR	ARR		He,X
6050	Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70658	IND	6A	ARR	ARR	ARR		Samaranayake,V
6099	Research	0.0-15.0	71032	IND	6A	ARR	ARR	ARR		Akin,E
		0.0-15.0	70656	IND	6B	ARR	ARR	ARR		Bohner,M
		0.0-15.0	70653	IND	6C	ARR	ARR	ARR		Charatonik,W
		0.0-15.0	70654	IND	6D	ARR	ARR	ARR		Grow,D
		0.0-15.0	70655	IND	6E	ARR	ARR	ARR		He,X
		0.0-15.0	71278	IND	6F	ARR	ARR	ARR		Insall,E
		0.0-15.0	71520	IND	6G	ARR	ARR	ARR		Le,V
		0.0-15.0	71630	IND	6H	ARR	ARR	ARR		Roe,R
		0.0-15.0	72013	IND	6J	ARR	ARR	ARR		Singler,J
		0.0-15.0	72143	IND	6K	ARR	ARR	ARR		Zhang, Y
		0.0-15.0	72179	IND	6L	ARR	ARR	ARR		
6106	Introduction to Ring Theory Prerequisite: Math 5105.	3.0- 3.0	73260	LEC	1A	TTh	12:30 - 01:45 pm	ARR		Morgan,I
6331	Theory Of Differential Equations II Prerequisite: Math 5302.	3.0- 3.0	73261	LEC	1A	ARR	ARR	ARR		Akin,E
6352	Functions Of A Complex Variable II Prerequisite: Preceded by Math 6351.	3.0- 3.0	73262	LEC	1A	CANCELLED				
6375	Theory Of Partial Differential Equations Prerequisite: Math 4209.	3.0- 3.0	73264	LEC	1A	ARR	ARR	ARR		Singler,J
6586	Topology II Prerequisite: Math 6585.	3.0- 3.0	73263	LEC	1A	CANCELLED				
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	72286	LEC	1A	MWF	01:00 - 01:50 pm	SHNK	00140	He,X
										UM Shared Course-Primary

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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	72230	LEC	1A	M	07:00 - 09:30 pm	LIB	000G14	Konur,D
6737 Financial Mathematics II Prerequisite: Math 5737 or Econ 5337. (Co-listed with Econ 6337)	3.0- 3.0	73265	LEC	1A	ARR	ARR	ARR		Hu,W

Mechanical Engineering

1720 Introduction to Engineering Design Students must enroll in a lecture and a lab.	0.0- 0.0	70069	LEC	1A	M	08:00 - 08:50 am	BCH	00125	Schmidt,J	
	0.0- 0.0	70071	LEC	1B	M	02:00 - 02:50 pm	EECH	00G31	Schmidt,J	
	0.0- 0.0	71341	LEC	1C	T	08:00 - 08:50 am	EECH	00G31	Schmidt,J	
	0.0- 0.0	70073	LEC	1D	T	02:00 - 02:50 pm	EECH	00G31	Schmidt,J	
	3.0- 3.0	70070	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	70072	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	71342	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	70074	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	70075	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	70076	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	72193	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	72610	LAB	3J	F	09:00 - 09:50 am	CH	00105	Schmidt,J		
Additional lab time for Software coverage will be by independent study										
See 'Notes'-Additional Meeting										
3.0- 3.0	71245	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	71600	LAB	3L	F	01:00 - 01:50 pm	CH	00105	Schmidt,J		
Additional lab time for Software coverage will be by independent study.										
See 'Notes'-Additional Meeting										
3.0- 3.0	72198	LAB	3M	F	02:00 - 02:50 pm	CH	00105	Schmidt,J		
Additional lab time for Software coverage will be by independent study.										
See 'Notes'-Additional Meeting										
2340 Statics and Dynamics Prerequisites: A grade of "C" or better in Physics 1135 or Physics 1111; preceded or accompanied by Math 2222.	3.0- 3.0	70092	LEC	1A	MWF	03:00 - 03:50 pm	BCH	00213	Buckholtz,K	
2350 Engineering Mechanics-Dynamics Prerequisites: A grade of "C" or better in each of Civ Eng 2200 and Math 2222.	2.0- 2.0	70093	LEC	1A	TTh	09:30 - 10:20 am	TMH	00199	Hutcheson,R	

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2360 Dynamics Prerequisite: Grade of "C" or better in each of Civ Eng 2200, Math 2222. (Co-listed with Aero Eng 2360)	3.0- 3.0	71076	LEC	1A	MWF	09:00 - 09:50 am	TMH	00254	MacSithigh,G	
	3.0- 3.0	71511	LEC	1B	TTh	12:30 - 01:45 pm	BERTELS	00B10	Kumar,N	
	3.0- 3.0	72522	LEC	1C	TTh	02:00 - 03:15 pm	BCH	00315	Hutcheson,R	
2519 Thermodynamics Prerequisites: A grade of "C" or better in each of Comp Sci 1570 or Comp Sci 1970 or Comp Sci 1971 or Comp Sci 1972, Math 1214 (or Math 1208), Math 1215 (or Math 1221), Math 2222, and Physics 1135.	3.0- 3.0	71895	LEC	1A	MWF	09:00 - 09:50 am	TMH	00295	Tsai,H	
	3.0- 3.0	70669	LEC	1B	MWF	10:00 - 10:50 am	TMH	00256	Tsai,H	
	3.0- 3.0	72611	LEC	1C	MWF	01:00 - 01:50 pm	TMH	00199	Gao,J	
2527 Thermal Analysis Prerequisites: Math 1215 (or 1221), Physics 1135.	3.0- 3.0	70673	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00199	Meeks,W	
2653 Introduction To Manufacturing Processes Prerequisite: IDE 1720. 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		LEC	1AA	TTh	11:00 - 11:50 am	TMH	00199	Schmid,K	
	3.0- 3.0	70660	LAB	3A	M	01:00 - 03:30 pm	TMH	00176	Lewis,R	
	3.0- 3.0	70661	LAB	3B	M	04:00 - 06:30 pm	TMH	00176	Lewis,R	
	3.0- 3.0	71366	LAB	3C	T	08:15 - 10:45 am	TMH	00176	Lewis,R	
	See 'Notes'-Additional Meeting									
	3.0- 3.0	70662	LAB	3D	T	12:00 - 02:30 pm	TMH	00176	Lewis,R	
	3.0- 3.0	70663	LAB	3E	T	03:00 - 05:30 pm	TMH	00176	Lewis,R	
	3.0- 3.0	70664	LAB	3F	W	01:00 - 03:30 pm	TMH	00176	Lewis,R	
	3.0- 3.0	71146	LAB	3G	Th	12:00 - 02:30 pm	TMH	00176	Lewis,R	
	3.0- 3.0	71255	LAB	3H	Th	03:00 - 05:30 pm	TMH	00176	Lewis,R	
2761 Introduction To Design Prerequisites: IDE 1720, Mech Eng 2653, preceded or accompanied by Civ Eng 2200; a grade of "C" or better in each of Math 1214 (or 1208), Physics 1135.	3.0- 3.0		LEC	1A	MW	03:00 - 03:50 pm	BCH	00125	Hutcheson,R	
	3.0- 3.0	71386	LAB	3A	F	01:00 - 01:50 pm	TMH	00200	Hutcheson,R	
	3.0- 3.0	71387	LAB	3B	F	02:00 - 02:50 pm	TMH	00200	Hutcheson,R	
	3.0- 3.0	71388	LAB	3C	F	03:00 - 03:50 pm	TMH	00200	Hutcheson,R	
	3.0- 3.0	72612	LAB	3D	F	12:00 - 12:50 pm	TMH	00200	Hutcheson,R	
3002 Cooperative Engineering Training	0.0- 6.0	70665	IND	6A	ARR	ARR	ARR		Nisbett,J	
3131 Thermofluid Mechanics I Prerequisite: A grade of "C" or better in Mech Eng 2519.	3.0- 3.0	70675	LEC	1A	TTh	08:00 - 09:15 am	FUL	00227	Wang,C	
	3.0- 3.0	70674	LEC	1B	TTh	11:00 - 12:15 pm	EECH	00G31	Duan,L	
3313 Machine Dynamics Prerequisites: A grade of "C" or better in each of Comp Sci 1570 or Comp Sci 1970 or Comp Sci 1971 or Comp Sci 1972, Mech Eng 2360 (or Aero Eng 2360), Math 1214 (or Math 1208), Math 1215 (or Math 1221), Math 2222, and Physics 1135.	3.0- 3.0	72194	LEC	1B	MWF	11:00 - 11:50 am	TMH	00199	MacSithigh,G	
3411 Modeling and Analysis of Dynamic Systems Prerequisites: A grade of "C" or better in each of Comp Sci 1570 or Comp Sci 1970 or Comp Sci 1971 or Comp Sci 1972, Mech Eng 2360 (or Aero Eng 2360), Math 1214 (or Math 1208), Math 1215 (or Math 1221), Math 2222, Math 3304, Physics 1135, Physics 2135.	3.0- 3.0	70667	LEC	1A	MWF	08:00 - 08:50 am	EECH	00G31	Kumar,N	
	3.0- 3.0	70668	LEC	1B	MWF	09:00 - 09:50 am	EECH	00G31	Kumar,N	
	3.0- 3.0	73470	LEC	1C	CANCELLED					
3521 Applied Thermodynamics Prerequisite: A grade of "C" or better in Mech Eng 2519.	3.0- 3.0	70670	LEC	1A	MWF	10:00 - 10:50 am	TMH	00295	Crosbie,A	
	3.0- 3.0	71596	LEC	1B	TTh	09:30 - 10:45 am	MCNT	00211	Koylu,U	
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	71944	LEC	1A	MWF	09:00 - 09:50 am	BCH	00124	Yang,X	
	3.0- 3.0	70672	LEC	1B	MWF	10:00 - 10:50 am	BCH	00121	Yang,X	
	3.0- 3.0	70671	LEC	1C	MWF	01:00 - 01:50 pm	TMH	00295	Crosbie,A	
3653 Manufacturing Prerequisites: Mech Eng 2653, Civ Eng 2211, and a grade of "C" or better in Civ Eng 2210.	3.0- 3.0	70683	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00250	Okafor,A	
	3.0- 3.0	72613	LEC	1B	TTh	09:30 - 10:45 am	BCH	00101	Chen,L	
3708 Machine Design I Prerequisites: Mech Eng 2653; accompanied or preceded by Mech Eng 2761; Met Eng 2110 or Aero Eng 3877; and a grade of "C" or better in Civ Eng 2210.	3.0- 3.0	70666	LEC	1A	TTh	11:00 - 12:15 pm	BERTELS	00B10	Nisbett,J	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4000 Special Problems	0.0- 6.0	70693	IND	6A	ARR	ARR	ARR		Hutcheson,R
Prerequisite: Consent of instructor.	0.0- 6.0	71772	IND	6B	ARR	ARR	ARR		Nisbett,J
4099 Undergraduate Research	0.0- 6.0	70698	IND	6A	ARR	ARR	ARR		Balakrishnan,S
Prerequisite: Consent of instructor required.	0.0- 6.0	70699	IND	6B	ARR	ARR	ARR		Bristow,D
	0.0- 6.0	71428	IND	6C	ARR	ARR	ARR		Carroll,D
	0.0- 6.0	70700	IND	6D	ARR	ARR	ARR		Chandrashekhara,K
	0.0- 6.0	71429	IND	6E	ARR	ARR	ARR		Chen,L
	0.0- 6.0	70701	IND	6F	ARR	ARR	ARR		Crosbie,A
	0.0- 6.0	70702	IND	6G	ARR	ARR	ARR		Dharani,L
	0.0- 6.0	70703	IND	6H	ARR	ARR	ARR		Drallmeier,J
	0.0- 6.0	71133	IND	6J	ARR	ARR	ARR		Du,X
	0.0- 6.0	70704	IND	6K	ARR	ARR	ARR		Duan,L
	0.0- 6.0	70705	IND	6L	ARR	ARR	ARR		Gao,J
	0.0- 6.0	70706	IND	6M	ARR	ARR	ARR		Homan,K
	0.0- 6.0	70707	IND	6N	ARR	ARR	ARR		Huang,X
	0.0- 6.0	70708	IND	6P	ARR	ARR	ARR		Isaac,K
	0.0- 6.0	70709	IND	6Q	ARR	ARR	ARR		Kinzel,E
	0.0- 6.0	70710	IND	6R	ARR	ARR	ARR		Koylu,U
	0.0- 6.0	70711	IND	6T	ARR	ARR	ARR		Krishnamurthy,K
	0.0- 6.0	70712	IND	6U	ARR	ARR	ARR		Landers,R
	0.0- 6.0	70713	IND	6V	ARR	ARR	ARR		Leu,M
	0.0- 6.0	70714	IND	6W	ARR	ARR	ARR		Liou,F
	0.0- 6.0	70715	IND	6Y	ARR	ARR	ARR		Midha,A
	0.0- 6.0	70716	IND	6Z	ARR	ARR	ARR		Nisbett,J
	0.0- 6.0	70717	IND	6AA	ARR	ARR	ARR		Okafor,A
	0.0- 6.0	70718	IND	6BB	ARR	ARR	ARR		Pan,H
	0.0- 6.0	71947	IND	6CC	ARR	ARR	ARR		Park,J
	0.0- 6.0	72077	IND	6DD	ARR	ARR	ARR		Stutts,D
	0.0- 6.0	72078	IND	6EE	ARR	ARR	ARR		Tsai,H
	0.0- 6.0	72347	IND	6FF	ARR	ARR	ARR		Wojnar,C
	0.0- 6.0	72348	IND	6GG	ARR	ARR	ARR		Yang,X
	0.0- 6.0	72614	IND	6HH	ARR	ARR	ARR		Wojnar,C
	0.0- 6.0	72615	IND	6JJ	ARR	ARR	ARR		
4479 Automatic Control Of Dynamic Systems	3.0- 3.0	70686	LEC	1A	MWF	08:00 - 08:50 am	TMH	00295	Landers,R
Prerequisite: A grade of "C" or better in Mech Eng 3411.	3.0- 3.0	70687	LEC	1B	MWF	09:00 - 09:50 am	TMH	00256	Krishnamurthy,K
	3.0- 3.0	73579	LEC	1C	MWF	10:00 - 10:50 am	TMH	00250	
4480 Control System Laboratory	1.0- 1.0	70688	LAB	3A	M	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S
Prerequisites: Preceded or accompanied by Mech Eng 4479. Students are scheduled for one exam: time and place to be announced. ME 4480 will meet 4:00-4:50 pm in CE 125 Tues and Wed of the first week of classes. Labs begin the second week.	1.0- 1.0	71625	LAB	3B	M	06:00 - 08:50 pm	TMH	00216	Balakrishnan,S
	1.0- 1.0	70689	LAB	3C	T	09:30 - 12:20 pm	TMH	00216	Balakrishnan,S
	1.0- 1.0	70690	LAB	3D	T	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S
	1.0- 1.0	70691	LAB	3E	W	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S
	1.0- 1.0	71508	LAB	3F	Th	09:30 - 12:20 pm	TMH	00216	Balakrishnan,S
	1.0- 1.0	70692	LAB	3G	Th	02:00 - 04:50 pm	TMH	00216	Balakrishnan,S
	1.0- 1.0	72025	LAB	3H	W	06:00 - 08:50 pm	TMH	00216	Balakrishnan,S
4761 Engineering Design	3.0- 3.0		LEC	1A	T	12:30 - 01:45 pm	TMH	00199	Midha,A
Prerequisites: Preceded or accompanied each of Mech Eng 3708, 3525, 3131, 4479.	3.0- 3.0	70685	LAB	3A	Th	12:30 - 01:45 pm	TMH	00199	Midha,A
						ADDITIONAL MEETING TIME TO BE ARRANGED.			
						See 'Notes'-Additional Meeting			
4840 Mechanical Instrumentation	2.0- 2.0	70676	LAB	3A	T	09:00 - 10:50 am	TMH	00317	Cottrell,M
Prerequisites: A grade of "C" or better each of Math 3304, Mech Eng 2519, Physics 1135.			LAB	3A	MW	02:00 - 02:50 pm	BCH	00125	
	2.0- 2.0	70677	LAB	3B	T	11:00 - 12:50 pm	TMH	00317	Cottrell,M
			LAB	3B	MW	02:00 - 02:50 pm	BCH	00125	
	2.0- 2.0	70678	LAB	3C	T	01:00 - 02:50 pm	TMH	00317	Cottrell,M
			LAB	3C	MW	02:00 - 02:50 pm	BCH	00125	
	2.0- 2.0	70679	LAB	3D	MW	02:00 - 02:50 pm	BCH	00125	
			LAB	3D	T	03:00 - 04:50 pm	TMH	00317	Cottrell,M
	2.0- 2.0	71207	LAB	3E	MW	02:00 - 02:50 pm	BCH	00125	
			LAB	3E	W	03:00 - 04:50 pm	TMH	00317	Cottrell,M
	2.0- 2.0	71368	LAB	3F	Th	09:00 - 10:50 am	TMH	00317	Cottrell,M
			LAB	3F	MW	02:00 - 02:50 pm	BCH	00125	
	2.0- 2.0	72006	LAB	3G	MW	02:00 - 02:50 pm	BCH	00125	
			LAB	3G	Th	03:00 - 04:50 pm	TMH	00317	Cottrell,M
	2.0- 2.0	71369	LAB	3H	Th	01:00 - 02:50 pm	TMH	00317	Cottrell,M
			LAB	3H	MW	02:00 - 02:50 pm	BCH	00125	
	2.0- 2.0	71403	LAB	3J	F	12:00 - 01:50 pm	TMH	00317	Cottrell,M
			LAB	3J	MW	02:00 - 02:50 pm	BCH	00125	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
4842 Mechanical Engineering Systems Prerequisites: Mech Eng 4840, 3521, 3131, 3525, 3313. Additional lectures required the first three Fridays from 3:00-3:50pm, located in TMH 199.	2.0- 2.0	72148	LAB	3K	Th	11:00 - 12:50 pm	TMH	00317		
			LAB	3K	MW	02:00 - 02:50 pm	BCH	00125	Cottrell,M	
	2.0- 2.0	73602	LAB	3L	W	12:00 - 12:50 pm	TMH	00317		
			LAB	3L	MW	02:00 - 02:50 pm	BCH	00125	Cottrell,M	
	2.0- 2.0	71623	LAB	3A	M	02:00 - 03:50 pm	TMH	00316	Stutts,D	
										Communication Emphasized
										See 'Notes'-Additional Meeting
			LAB	3A	W	03:00 - 03:50 pm	TMH	00199		
										Communication Emphasized
										See 'Notes'-Additional Meeting
	2.0- 2.0	70680	LAB	3B	T	09:00 - 10:50 am	TMH	00316	Stutts,D	
										Communication Emphasized
										See 'Notes'-Additional Meeting
			LAB	3B	W	03:00 - 03:50 pm	TMH	00199		
										Communication Emphasized
										See 'Notes'-Additional Meeting
	2.0- 2.0	70682	LAB	3C	T	02:00 - 03:50 pm	TMH	00316	Stutts,D	
										Communication Emphasized
									See 'Notes'-Additional Meeting	
		LAB	3C	W	03:00 - 03:50 pm	TMH	00199			
									Communication Emphasized	
									See 'Notes'-Additional Meeting	
2.0- 2.0	70681	LAB	3D	Th	09:00 - 10:50 am	TMH	00316	Stutts,D		
									Communication Emphasized	
									See 'Notes'-Additional Meeting	
		LAB	3D	W	03:00 - 03:50 pm	TMH	00199			
									Communication Emphasized	
									See 'Notes'-Additional Meeting	
2.0- 2.0	71622	LAB	3E	Th	02:00 - 03:50 pm	TMH	00316	Stutts,D		
									Communication Emphasized	
									See 'Notes'-Additional Meeting	
		LAB	3E	W	03:00 - 03:50 pm	TMH	00199			
									Communication Emphasized	
									See 'Notes'-Additional Meeting	
2.0- 2.0	71885	LAB	3F	W	01:00 - 02:50 pm	TMH	00316	Stutts,D		
									Communication Emphasized	
									See 'Notes'-Additional Meeting	
		LAB	3F	W	03:00 - 03:50 pm	TMH	00199			
									Communication Emphasized	
									See 'Notes'-Additional Meeting	
2.0- 2.0	72149	LAB	3G	F	01:00 - 02:50 pm	TMH	00316			
									Communication Emphasized	
									See 'Notes'-Additional Meeting	
		LAB	3G	W	03:00 - 03:50 pm	TMH	00199	Stutts,D		
									Communication Emphasized	
									See 'Notes'-Additional Meeting	
5000 Special Problems	0.0- 6.0	70719	IND	6A	ARR	ARR	ARR		Leu,M	
	0.0- 6.0	70720	IND	6B	ARR	ARR	ARR		Liou,F	
	0.0- 6.0	71037	IND	6C	ARR	ARR	ARR		Okafor,A	
	0.0- 6.0	71769	IND	6D	ARR	ARR	ARR			
5001 Special Topics	3.0- 3.0	73230	LEC	1A	TTh	02:00 - 03:15 pm	TMH	00249	Wang,C	
									Intro to Microfluidics	
									Prerequisites: Math 2222, Phys 2135 or equivalent, and one from the following list: Mech Eng 3131, Aero Eng 3131, Chem Eng 3100, Chem 3410, Elec Eng 3600, Civ Eng 3330, Cer Eng 3410. (Co-listed with Aero Eng 5001)	
	3.0- 3.0	73471	LEC	1B	TTh	09:30 - 10:45 am	TMH	00256	Kinzel,E	
									Non-Intrusive Measurement Mthd	
									Prerequisites: Phys 2135; Mech Eng 3525 or consent of instructor for non-Mech Eng majors.	
	3.0- 3.0	73591	LEC	1C	TTh	09:30 - 10:45 am	TMH	00249	Park,J	
									Modeling Energy Material	
									Prerequisite: Civ Eng 2210, or Mech Eng 2519, or graduate standing.	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
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	73231	LEC	1A	T	04:00 - 06:30 pm	HARR	00107	Birman,V
5236 Fracture Mechanics Prerequisite: Civ Eng 2210. (Co-listed with Aero Eng 5236)	3.0- 3.0	70695	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00213	Dharani,L
5282 Introduction to Composite Materials & Structures Prerequisite: Civ Eng 2210. (Co-listed with Aero Eng 5282)	3.0- 3.0	71061	LEC	1A	TTh	09:30 - 10:45 am	BCH	00213	Chandrashekhara,K
5478 Mechatronics Prerequisite: Mech Eng 4479 or equivalent. (Co-listed with Aero Eng 5478, Elec Eng 5870 and Comp Eng 5820)	3.0- 3.0 3.0- 3.0	 73473	LEC LAB	1A 3A	MW F	08:00 - 08:50 am 08:00 - 08:50 am	TMH TMH	00250 00250	Krishnamurthy,K Krishnamurthy,K
5519 Advanced Thermodynamics Prerequisite: Mech Eng 2519. (Co-listed with Aero Eng 5519)	3.0- 3.0	73480	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00254	Pan,H
5533 Internal Combustion Engines Prerequisite: Mech Eng 3521.	3.0- 3.0	72110	LEC	1A	TTh	08:00 - 09:15 am	TMH	00256	Drallmeier,J
5537 Fuel Cell Principles Prerequisites: MECH ENG 3521.	3.0- 3.0	72346	LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00106	Koylu,U
5566 Solar Energy Technology Prerequisite: Mech Eng 3525, or consent of instructor for non-Mech Eng majors.	3.0- 3.0	72111	LEC	1A	MWF	03:00 - 03:50 pm	CS	00209	Homan,K
5571 Environmental Controls Prerequisites: Mech Eng 3521 and accompanied or preceded by Mech Eng 3525; or Mech Eng 2527 and Civ Eng 3330. (Co-listed with Arch Eng 5872)	3.0- 3.0	73432	LEC	1A	MWF	11:00 - 11:50 am	BCH	00101	Gillis,W
5575 Mechanical Systems For Environmental Control Prerequisites: Mech Eng 3521 and 3525; or Mech Eng 2527 and Civ Eng 3330.	3.0- 3.0	72112	LEC	1A	T	07:00 - 09:30 pm	MCNT	00130	Williams JR,G
5653 Computer Numerical Control of Manufacturing Processes Prerequisites: Preceded or accompanied by Mech Eng 3653.	3.0- 3.0 3.0- 3.0 3.0- 3.0	 70697 71529	LEC LAB LAB	1A 3A 3B	MW F W	11:00 - 11:50 am 10:00 - 11:50 am 01:00 - 02:50 pm	TMH TMH TMH	00256 00197 00197	Okafor,A Okafor,A Okafor,A
5656 Design For Manufacture Prerequisites: Mech Eng 3708, Mech Eng 3653.	3.0- 3.0	71102	LEC	1A	Th	07:00 - 09:30 pm	EECH	00239	Appelman,H
5704 Compliant Mechanism Design Prerequisites: Mech Eng 3313, Civ Eng 2210.	3.0- 3.0	70694	LEC	1A	MWF	10:00 - 10:50 am	TMH	00260	Midha,A
5757 Integrated Product And Process Design Prerequisites: Junior or above standing. (Co-listed with ENG MGT 5515)	3.0- 3.0	72647	LEC	1A	M	04:00 - 05:15 pm	CS	00209	Grantham,K
5760 Probabilistic Engineering Design Prerequisite: Mech Eng 3708 or Aero Eng 3361. (Co-listed with Aero Eng 5760)	3.0- 3.0	71370	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00249	Du,X
5830 Applied Computational Methods Prerequisite: Comp Sci 1570 or 1970 or 1981; Math 3304. (Co-listed with Aero Eng 5830)	3.0- 3.0	71838	LEC	1A	TTh	11:00 - 12:15 pm	BCH	00213	Hosder,S
6001 Special Topics	3.0- 3.0	73482	LEC	1A	MWF	08:00 - 08:50 am	TMH	00260	Bristow,D
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70748	IND	6A	ARR	ARR	ARR		Landers,R

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	70749	IND	6A	ARR	ARR	ARR		Landers,R
6099 Research Prerequisite: Consent of instructor.	0.0-15.0	70722	IND	6A	ARR	ARR	ARR		Balakrishnan,S
	0.0-15.0	71136	IND	6B	ARR	ARR	ARR		Bristow,D
	0.0-15.0	70723	IND	6C	ARR	ARR	ARR		Carroll,D
	0.0-15.0	71430	IND	6D	ARR	ARR	ARR		Chandrashekhara,K
	0.0-15.0	70724	IND	6E	ARR	ARR	ARR		Chen,L
	0.0-15.0	71431	IND	6F	ARR	ARR	ARR		Crosbie,A
	0.0-15.0	70725	IND	6G	ARR	ARR	ARR		Dharani,L
	0.0-15.0	70726	IND	6H	ARR	ARR	ARR		Drallmeier,J
	0.0-15.0	70727	IND	6J	ARR	ARR	ARR		Du,X
	0.0-15.0	70728	IND	6K	ARR	ARR	ARR		Duan,L
	0.0-15.0	70729	IND	6L	ARR	ARR	ARR		Eversman,W
	0.0-15.0	70730	IND	6M	ARR	ARR	ARR		Gao,J
	0.0-15.0	70731	IND	6N	ARR	ARR	ARR		Homan,K
	0.0-15.0	70732	IND	6P	ARR	ARR	ARR		Hosder,S
	0.0-15.0	70733	IND	6Q	ARR	ARR	ARR		Isaac,K
	0.0-15.0	70734	IND	6R	ARR	ARR	ARR		Kinzel,E
	0.0-15.0	70735	IND	6T	ARR	ARR	ARR		Koylu,U
	0.0-15.0	70736	IND	6U	ARR	ARR	ARR		Krishnamurthy,K
	0.0-15.0	70737	IND	6V	ARR	ARR	ARR		Landers,R
	0.0-15.0	70738	IND	6W	ARR	ARR	ARR		Leu,M
	0.0-15.0	70739	IND	6X	ARR	ARR	ARR		Liou,F
	0.0-15.0	70740	IND	6Y	ARR	ARR	ARR		Midha,A
	0.0-15.0	70741	IND	6AA	ARR	ARR	ARR		Nisbett,J
	0.0-15.0	70742	IND	6BB	ARR	ARR	ARR		Okafor,A
	0.0-15.0	70743	IND	6CC	ARR	ARR	ARR		Pan,H
	0.0-15.0	70744	IND	6DD	ARR	ARR	ARR		Park,J
	0.0-15.0	70745	IND	6EE	ARR	ARR	ARR		Riggins,D
	0.0-15.0	70746	IND	6FF	ARR	ARR	ARR		Rovey,J
	0.0-15.0	70747	IND	6GG	ARR	ARR	ARR		Stutts,D
	0.0-15.0	72016	IND	6HH	ARR	ARR	ARR		Tsai,H
	0.0-15.0	72079	IND	6JJ	ARR	ARR	ARR		Wang,C
	0.0-15.0	72080	IND	6KK	ARR	ARR	ARR		Wojnar,C
	0.0-15.0	72113	IND	6LL	ARR	ARR	ARR		Yang,X
	0.0-15.0	72349	IND	6MM	ARR	ARR	ARR		
	0.0-15.0	72350	IND	6NN	ARR	ARR	ARR		
	0.0-15.0	72616	IND	6PP	ARR	ARR	ARR		
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	71992	LEC	1A	MWF	11:00 - 11:50 am	CS	00209	Isaac,K
6137 Physical Gas Dynamics I Prerequisite: Mech Eng or Aero Eng 5131. (Co-listed with Aero Eng 6137)	3.0- 3.0	73484	LEC	1A	TTh	09:30 - 10:45 am	CS	00209	Rovey,J
6212 Advanced Finite Element Analysis Prerequisite: Mech Eng 5212 or Aero Eng 5212. (Co-listed with Aero Eng 6212)	3.0- 3.0	70721	LEC	1A	TTh	11:00 - 12:15 pm	TMH	00260	Chandrashekhara,K
6222 Theory of Elasticity Prerequisites: CIV ENG 2210. (Co-listed with Aero Eng 6222)	3.0- 3.0	72619	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	72076	LEC	1A	MWF	01:00 - 01:50 pm	TMH	00249	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	73279	LEC	1A	T	07:00 - 09:30 pm	EECH	00239	Wunsch,D
6527 Heat Transfer by Convection Prerequisite: Mech Eng or Aero Eng 5525. (Co-listed with Aero Eng 6527)	3.0- 3.0	71945	LEC	1A	MWF	09:00 - 09:50 am	LIB	000G14	Homan,K

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6659 Advanced Topics in Design and Manufacturing Prerequisites: Mech Eng 5655 or Mech Eng 5708 or equivalent.	3.0- 3.0	71051	LEC	1A	TTh	02:00 - 03:15 pm	LIB	000G14	Liou,F
6663 Advanced Digital Design and Manufacturing Prerequisites: Mech Eng 5708 or Mech Eng 5757 or Mech Eng 5763 or equivalent.	3.0- 3.0	72196	LEC	1A	TTh	09:30 - 10:45 am	LIB	000G14	Leu,M

Metallurgical Engineering

1210 Chemistry Of Materials Prerequisite: "C" or better grade in Chem 1310.	3.0- 3.0	70752	LEC	1A	MWF	10:00 - 10:50 am	MCNT	00206	Kumar,A
2002 Cooperative Training	1.0- 2.0	70753	IND	6A	ARR	ARR	ARR		Miller,F
2110 Metallurgy For Engineers Prerequisite: Preceded or accompanied by Chem 1310, prior or concurrent. Students enrolled in Met 2110 will meet for four one-hour quiz sessions dates to be announced.	3.0- 3.0	70750	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00204	Miller,F
	3.0- 3.0	70751	LEC	1B	MWF	11:00 - 11:50 am	MCNT	00204	Miller,F
2125 Microstructural Development Laboratory Prerequisite: Accompanied or preceded by Met Eng 3130.	2.0- 2.0		LEC	1A	T	12:30 - 01:30 pm	MCNT	00211	Zhou,C
	2.0- 2.0	72434	LAB	3A	T	01:30 - 03:15 pm	MCNT	000B5	Zhou,C
	2.0- 2.0	72435	LAB	3B	Th	12:30 - 02:15 pm	MCNT	000B5	Zhou,C
3001 Special Topics	2.0- 2.0	73400	LEC	1A	TTh	08:00 - 08:50 am	MCNT	00212	Van Aken,D
									Ferrous Microstructures Prerequisite: Met Eng 2110 with grade of "C" or better.
3130 Metals Microstructural Development Prerequisites: "C" or better grade in MET ENG 2110; accompanied or preceded by CER ENG 3230.	3.0- 3.0	71187	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00212	Field,D
3220 Introduction To Extractive Metallurgy Prerequisites: "C" or better grade in Met Eng 1210. Preceded or accompanied by Met Eng 3330 or Cer Eng 3230 or Chem Eng 2210.	3.0- 3.0	71075	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	71544	LAB	3A	M	01:00 - 01:50 pm	MCNT	00212	Moats,M
			LAB	3A	M	02:00 - 03:50 pm	MCNT	00233	
	1.0- 1.0	71124	LAB	3B	W	01:00 - 01:50 pm	MCNT	00212	Moats,M
			LAB	3B	W	02:00 - 03:50 pm	MCNT	00233	
3410 Applied Metal Forming Prerequisite: Chem 1100.	2.0- 2.0		LEC	1A	F	12:00 - 12:50 pm	MCNT	00243	Newkirk,J
3420 Principles Of Materials Processing Prerequisite: "C" or better grade in Met Eng 2110.	2.0- 2.0	73534	LAB	3A	F	01:30 - 03:30 pm	MCNT	00245	Newkirk,J
	3.0- 3.0	70754	LEC	1A	MWF	11:00 - 11:50 am	MCNT	00211	Richards,V
3425 Metals Processing Prerequisite: Accompanied or preceded by Met Eng 3420.	1.0- 1.0	70755	LAB	3A	W	01:00 - 03:50 pm	MCNT	00244	Bartlett,L
	1.0- 1.0	71212	LAB	3B	M	01:00 - 03:50 pm	MCNT	00244	Bartlett,L
4000 Special Problems	0.0- 6.0	71154	IND	6A	ARR	ARR	ARR		Miller,F
	0.0- 6.0	71033	IND	6B	ARR	ARR	ARR		Newkirk,J
	0.0- 6.0	71132	IND	6C	ARR	ARR	ARR		O'Keefe,M
	0.0- 6.0	71223	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	71337	LAB	3A	MWF	11:00 - 11:50 am	MCNT	00212	O'Keefe,M
4099 Undergraduate Research	0.0- 6.0	70756	IND	6A	ARR	ARR	ARR		Bartlett,L
	0.0- 6.0	70757	IND	6B	ARR	ARR	ARR		Miller,F
	0.0- 6.0	70758	IND	6C	ARR	ARR	ARR		Moats,M
	0.0- 6.0	70759	IND	6D	ARR	ARR	ARR		Newkirk,J
	0.0- 6.0	70760	IND	6E	ARR	ARR	ARR		O'Keefe,M
	0.0- 6.0	70761	IND	6F	ARR	ARR	ARR		Richards,V

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	70762	IND	6G	ARR	ARR	ARR		Van Aken,D
	0.0- 6.0	70763	IND	6H	ARR	ARR	ARR		Watts,J
4230 Corrosion And Its Prevention Prerequisite: "C" or better grade in either Chem 3430 or Cer Eng 3230. (Co-listed with Chem Eng 5310)	3.0- 3.0	72090	LEC	1A	MWF	09:00 - 09:50 am	MCNT	00210	Schlesinger,M
5040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70764	IND	6A	ARR	ARR	ARR		Hilmas,G
5270 Mineral Processing II (Mechanics and Design) Prerequisite: Min Eng 3412. (Co-listed with Min Eng 4424)	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	MCNT	00265	Alagha,L
	3.0- 3.0	71758	LAB	3A	ARR	ARR	ARR		Alagha,L
5430 Metals Joining Prerequisite: Met Eng 2110 or 3420.	2.0- 2.0	73187	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	71445	LEC	1A	TTh	12:30 - 01:45 pm	EECH	00111	Zoughi,R
5520 Scanning Electron Microscopy Prerequisites: Met Eng 3130 and 2125 or course in optical microscopy - consent of instructor required.	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	MCNT	00265	Miller,F
	3.0- 3.0	71825	LAB	3A	W	09:00 - 12:00 pm	MCNT	000B18	Wisner,C
	3.0- 3.0	71845	LAB	3B	W	01:00 - 04:00 pm	MCNT	000B18	Wisner,C
	3.0- 3.0	73610	LAB	3C	M	01:00 - 04:00 pm	MCNT	000B18	Wisner,C
5620 Materials Behavior Prerequisite: Grade of "C" or better in both Met Eng 2110 and Met Eng 3120.	3.0- 3.0	73398	LEC	1A	TTh	09:30 - 10:45 am	MCNT	000B14	Zhou,C
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70765	IND	6A	ARR	ARR	ARR		Hilmas,G
6099 Research	0.0-15.0	72920	IND	6A	ARR	ARR	ARR		Asle Zaeem,M
	0.0-15.0	72921	IND	6B	ARR	ARR	ARR		Bartlett,L
	0.0-15.0	72922	IND	6C	ARR	ARR	ARR		Kumar,A
	0.0-15.0	72923	IND	6D	ARR	ARR	ARR		Moats,M
	0.0-15.0	72924	IND	6E	ARR	ARR	ARR		Newkirk,J
	0.0-15.0	72925	IND	6F	ARR	ARR	ARR		O'Keefe,M
	0.0-15.0	72926	IND	6G	ARR	ARR	ARR		O'Malley,R
	0.0-15.0	72927	IND	6H	ARR	ARR	ARR		Richards,V
	0.0-15.0	72928	IND	6J	ARR	ARR	ARR		Schlesinger,M
	0.0-15.0	72929	IND	6K	ARR	ARR	ARR		Van Aken,D
	0.0-15.0	73401	IND	6L	ARR	ARR	ARR		Zhou,C

Military Science - Army ROTC

1000 Army Physical Readiness Program	1.0- 1.0	70767	LAB	3A	MWF	06:00 - 07:00 am	ARR		Hearn,B
1500 Introduction to Tactical Leadership	1.0- 1.0	70766	LEC	1A	W	02:00 - 02:50 pm	HARR	00302	Dalton,R
1700 Rifle Marksmanship	1.0- 1.0	71525	LEC	1A	M	11:00 - 11:50 am	HARR	00302	Pense,C
2500 Foundations of Tactical Leadership	3.0- 3.0	71062	LEC	1A	TTh	09:30 - 10:45 am	ARR		Register,O
2750 Basic Leadership Laboratory Prerequisite: To accompany Mil Army 2500.	1.0- 1.0	70768	LAB	3A	W	03:00 - 05:00 pm	ARR		Hearn,B
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	Hearn,B
	3.0- 3.0	70770	LAB	3A	W	03:30 - 05:00 pm	ARR		Hearn,B
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	70771	IND	6A	ARR	ARR	ARR		Register,O
4500 Leadership in a Complex World Prerequisite: Mil Army 4250 - Exceptions to be made by Department Chair Only In Accordance With Army (Cadet Command) Policies.	3.0- 3.0		LEC	1A	MW	12:00 - 12:50 pm	HARR	00107	Register,O
	3.0- 3.0	70773	LAB	3A	W	03:30 - 05:00 pm	ARR		Register,O

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
Mining Engineering									
1912 Principles Of Mining Engineering	1.0- 1.0	70774	LEC	1A	F	10:00 - 10:50 am	MCNT	00212	Johnson,C
									Field Trip Required
2126 Introduction To Mining Safety	1.0- 1.0	70775	LAB	3A	M	01:00 - 03:50 pm	MINE		Konya,T
Prerequisite: Accompanied or preceded by Min Eng 1912.	1.0- 1.0	71594	LAB	3B	W	01:00 - 03:50 pm	MINE		Konya,T
3000 Special Problems	0.0- 6.0	70776	IND	6A	ARR	ARR	ARR		
Prerequisite: Consent of instructor required.									
3412 Principles Of Mineral Processing	3.0- 3.0		LEC	1A	MW	09:00 - 09:50 am	MCNT	00206	Alagha,L
	3.0- 3.0	71198	LAB	3A	F	01:00 - 03:45 pm	ARR		
4000 Special Problems	0.0- 6.0	70779	IND	6A	ARR	ARR	ARR		Alagha,L
	0.0- 6.0	70780	IND	6B	F	09:00 - 09:50 am	MCNT	00114	Aouad,N
	0.0- 6.0	71221	IND	6C	ARR	ARR	ARR		Awuah-Offei,K
	0.0- 6.0	71617	IND	6D	ARR	ARR	ARR		Frimpong,S
	0.0- 6.0	71902	IND	6E	ARR	ARR	ARR		Galecki,G
	0.0- 6.0	72039	IND	6F	ARR	ARR	ARR		Ge,M
	0.0- 6.0	72975	IND	6G	ARR	ARR	ARR		Flori,R
	0.0- 6.0	72976	IND	6H	ARR	ARR	ARR		Worsey,P
4096 Mine Design Project I	3.0- 3.0	71651	LAB	3A	F	10:00 - 10:50 am	MCNT	00114	Aouad,N
Prerequisites: Min Eng 2914 and Min Eng 2924.									
4097 Mine Design Project II	4.0- 4.0		LEC	1A	M	10:00 - 10:50 am	MCNT	00114	Frimpong,S
Prerequisites: Min Eng 4096 and completion of 110 hours in the Mining Engineering Curriculum.			LEC	1A	W	10:00 - 10:50 am	MCNT	00114	
	4.0- 4.0	70791	LAB	3A	TTh	02:15 - 04:45 pm	MCNT	00114	Frimpong,S
4099 Undergraduate Research	0.0- 6.0	70788	IND	6A	ARR	ARR	ARR		Awuah-Offei,K
	0.0- 6.0	70789	IND	6B	ARR	ARR	ARR		Frimpong,S
4113 Mine Atmosphere Control	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	MCNT	00216	Hyder,Z
Prerequisites: Chem 3410 and Civ Eng 3330.	3.0- 3.0	70782	LAB	3A	M	01:00 - 01:50 pm	ARR		
			LAB	3A	M	01:50 - 03:45 pm	MINE		Hyder,Z
4412 Aggregate Materials Sizing and Characterization	3.0- 3.0		LEC	1A	MW	08:00 - 08:50 am	MCNT	00206	Galecki,G
Prerequisite: Min Eng 3412.	3.0- 3.0	71768	LAB	3A	ARR	ARR	ARR		Galecki,G
4423 Mineral Processing I (Flotation and Hydrometallurgy)	3.0- 3.0		LEC	1A	ARR	ARR	ARR		
Prerequisite: Min Eng 3412.	3.0- 3.0	73066	LAB	3A	ARR	ARR	ARR		
4424 Mineral Processing II (Mechanics and Design)	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	MCNT	00265	Alagha,L
Prerequisite: Min Eng 3412. (Co-listed with Met Eng 5270)	3.0- 3.0	71756	LAB	3A	ARR	ARR	ARR		Alagha,L
4522 Ore Reserve Analysis And Geostatistics	3.0- 3.0		LEC	1A	MW	10:00 - 10:50 am	MCNT	00210	Awuah-Offei,K
Prerequisites: Math 3304, Stat 3113.	3.0- 3.0	72041	LAB	3A	F	11:00 - 11:50 am	MCNT	00114	Awuah-Offei,K
4524 Energy Economics	3.0- 3.0	72008	LEC	1A	MWF	11:00 - 11:50 am	TMH	00249	Gelles,G
Prerequisite: Econ 2100. (Co-listed with Econ 4540)									
4742 Environmental Aspects Of Mining	3.0- 3.0	70785	LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00B10	Awuah-Offei,K
Prerequisites: Co-requisites: MIN ENG 4933 or GEO ENG 5441 or ENV ENG 5619. (Co-listed with GEO ENG 4276)									
4823 Rock Mechanics	3.0- 3.0		LEC	1A	TTh	11:00 - 12:15 pm	EMGT	00103	Ge,M
Prerequisites: Physics 2135; Civ Eng 2210; Geology 3310.									Field Trip Required
	3.0- 3.0	71614	LAB	3A	W	01:00 - 03:50 pm	MCNT	00245	Ge,M
									Field Trip Required
	3.0- 3.0	71618	LAB	3B	Th	01:00 - 03:50 pm	MCNT	00210	Ge,M
									Field Trip Required
4932 Underground Mining Methods And Equipment	3.0- 3.0	70783	LEC	1A	TTh	08:00 - 09:15 am	MCNT	00216	Aouad,N
Prerequisites: Min Eng 2924, Min Eng 3512; coreq. Min Eng 3913; Min Eng 4823.									Field Trip Required
4933 Surface Mining Methods And Equipment	3.0- 3.0	70784	LEC	1A	MWF	04:00 - 04:50 pm	BCH	00120	Frimpong,S
Prerequisites: Min Eng 3912; Min Eng 2914; Min Eng 3512; coreq. Min Eng 4823.									Field Trip Required
5113 Advanced Mine Atmosphere Control	3.0- 3.0		LEC	1A	MW	11:00 - 11:50 am	MCNT	00216	Hyder,Z
Prerequisite: Mi Eng 4113 or Consent of Instructor.	3.0- 3.0	72565	LAB	3A	M	01:50 - 03:45 pm	MINE		Hyder,Z

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5423 Advanced Flotation and Hydrometallurgy Prerequisites: Mi Eng 4423 or Consent of Instructor.	3.0- 3.0 3.0- 3.0		LEC LAB	1A 3A	ARR ARR	ARR ARR	ARR ARR		
5424 Advanced Mechanics And Design Prerequisites: Mi Eng 4424 or Consent of Instructor.	3.0- 3.0 3.0- 3.0	73062 72563	LEC LAB	1A 3A	MW ARR	11:00 - 11:50 am ARR	MCNT ARR	00265	Alagha,L Alagha,L
5522 Advanced Ore Reserve Analysis And Geostatistics Prerequisites: Math 3304 & Stat 3113 or instructor consent.	3.0- 3.0 3.0- 3.0		LEC LAB	1A 3A	MW ARR	10:00 - 10:50 am ARR	MCNT ARR	00210	Awuah-Offei,K Awuah-Offei,K
5532 Advanced Mining Economics (Co-listed with ECON 5532)	3.0- 3.0	73406	LEC	1A	W	07:00 - 09:30 pm	BCH	00213	Hyder,Z
5742 Advanced Environmental Aspects of Mining Prerequisites: Min Eng 5932 and 5933 or instructor consent. (Co-listed with GE XXXX)	3.0- 3.0	72458	LEC	1A	TTh	09:30 - 10:45 am	BERTELS	00B10	Awuah-Offei,K
5823 Rock Mechanics III Prerequisites: Mi Eng 4823 or Consent of Instructor.	3.0- 3.0 3.0- 3.0 3.0- 3.0		LEC LAB LAB	1A 3A 3B	TTh W Th	11:00 - 12:15 pm 01:00 - 03:50 pm 01:00 - 03:50 pm	EMGT MCNT MCNT	00103 00245 00210	Ge,M Ge,M Ge,M
5922 Advanced Tunneling & Underground Construction Techniques Prerequisites: Min Eng 4922 or Consent of Instructor.	3.0- 3.0 3.0- 3.0		LEC LAB	1A 3A	W ARR	01:00 - 02:50 pm ARR	MCNT ARR	00231	Perry,K Perry,K
5932 Advanced Underground Mining Methods Prerequisite: Mi Eng 4932 or Consent of Instructor.	3.0- 3.0	72561	LEC	1A	TTh	08:00 - 09:15 am	MCNT	00216	Aouad,N
5933 Advanced Surface Mining Methods Prerequisites: Min Eng 4933 or Consent of Instructor.	3.0- 3.0	72560	LEC	1A	MWF	04:00 - 04:50 pm	BCH	00120	Frimpong,S
6000 Special Problems	0.0- 6.0 0.0- 6.0 0.0- 6.0 0.0- 6.0 0.0- 6.0	71309 71616 71643 71775 72031	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		Alagha,L Aouad,N Awuah-Offei,K Frimpong,S Ge,M
6001 Special Topics	3.0- 3.0	73525	LEC	1A	TTh	09:30 - 10:45 am	HARR	00107	Weiss,D
6010 Seminar	1.0- 1.0	70792	RSD	2A	M	12:00 - 12:50 pm	MCNT	00216	
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	70798	IND	6A	ARR	ARR	ARR		
6050 Continuous Registration	1.0- 1.0	70799	IND	6A	ARR	ARR	ARR		Lusk,B
6099 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 0.0-15.0 0.0-15.0 0.0-15.0	70793 70794 70795 71474 70796 71142 70797 73604	IND IND IND IND IND IND IND IND IND	6A 6B 6C 6D 6E 6F 6G 6H	ARR ARR ARR ARR ARR ARR ARR ARR ARR	ARR ARR ARR ARR ARR ARR ARR ARR ARR	ARR ARR ARR ARR ARR ARR ARR ARR ARR		Lusk,B Alagha,L Aouad,N Awuah-Offei,K Frimpong,S Galecki,G Ge,M Hyder,Z Homan,K
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 3.0- 3.0		LEC LAB	1A 3A	T Th	08:00 - 09:15 am 08:00 - 09:15 am	HARR HARR	00107 00107	Weiss,D Weiss,D
6936 Surface Mine Design Prerequisite: Min Eng 4933 or equivalent.	3.0- 3.0	72527	LEC	1A	ARR	ARR	ARR		Frimpong,S
6992 Research Methods Prerequisites: PhD students only. (Co-listed with Exp Eng 6292)	3.0- 3.0	72530	LEC	1A	ARR	ARR	ARR		Lusk,B

Music

1111 Individual Music Instruction I Prerequisite: Consent of instructor required.	1.0- 1.0	70800	LAB	3A	ARR	ARR	ARR		Francis,L
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CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	1.0- 1.0	71817	LAB	3B	ARR	ARR	ARR		
			Strings only						
	1.0- 1.0	71818	LAB	3C	ARR	ARR	ARR		Cress,D
			Brass only						
1121 Individual Music Instruction II Consent of instructor required.	1.0- 2.0	70801	LAB	3A	ARR	ARR	ARR		Francis,L
			Piano						
1130 Wind Symphony	2.0- 2.0	70803	LAB	3A	MWF	12:00 - 12:50 pm	CASTL	00137	Cress,D
1132 University Orchestra	2.0- 2.0	70804	LAB	3A	M	07:00 - 09:30 pm	CASTL	00137	
			(Symphony Orchestra)						
1134 Instrumental Chamber Ensemble-Strings	1.0- 1.0	70805	LAB	3A	Th	07:00 - 09:00 pm	CASTL	00137	
			(Chamber Orchestra)						
1135 Symphonic Band	0.0- 2.0	73374	LAB	3A	TWTh	04:00 - 05:20 pm	CASTL	00137	Cress,D
1136 Jazz Ensemble Prerequisite: Consent of instructor.	1.0- 1.0	70806	LAB	3A	T	06:00 - 08:30 pm	CASTL	00137	Cress,D
1140 University Choir	1.0- 1.0	70807	LAB	3A	TTh	02:00 - 03:15 pm	CASTL	00138	Francis,L
1141 Chamber Vocal Ensembles	1.0- 1.0	71231	LAB	3A	TTh	12:30 - 01:45 pm	CASTL	00138	Francis,L
			Audition						
1150 Music Understanding And Appreciation	3.0- 3.0	71096	LEC	1A	MWF	02:00 - 02:50 pm	CASTL	00138	Francis,L
2000 Special Problems	0.0- 6.0	71921	IND	6A	ARR	ARR	ARR		Cress,D
2111 Individual Music Instruction III Consent of instructor required.	1.0- 2.0	70808	LAB	3A	ARR	ARR	ARR		Francis,L
			Piano						
	1.0- 2.0	73172	LAB	3B	ARR	ARR	ARR		Cress,D
			Brass only						
2121 Individual Music Instruction IV Consent of instructor required.	1.0- 2.0	70809	LAB	3A	ARR	ARR	ARR		Francis,L
			Piano						
2162 Theory of Music II Prerequisite: Music 2161.	3.0- 3.0	73375	LEC	1A	TTh	08:00 - 09:15 am	CASTL	00138	Francis,L
3000 Special Problems	0.0- 6.0	70811	IND	6A	ARR	ARR	ARR		Francis,L

Nuclear Engineering

1105 Nuclear Technology Applications	1.0- 1.0	70812	LEC	1A	M	11:00 - 11:50 am	FUL	00220	Castano,C
2105 Introduction To Nuclear Engineering Prerequisite: Math 1215 or Math 1221.	2.0- 2.0	71095	LEC	1A	TTh	02:00 - 02:50 pm	FUL	00227	Graham,J
2406 Reactor Operations I Prerequisites: Math 1214 or Math 1208; preceded or accompanied by Nuc Eng 1105.	1.0- 1.0	70815	LAB	3A	M	02:00 - 02:50 pm	ARR		Liu,X
			Additional meeting time to be arranged. See 'Notes'-Additional Meeting						
	1.0- 1.0	72905	LAB	3B	T	09:00 - 09:50 am	ARR		Liu,X
	1.0- 1.0	72906	LAB	3C	T	02:00 - 02:50 pm	ARR		Liu,X
3000 Special Problems	0.0- 6.0	70813	IND	6A	ARR	ARR	ARR		Lee,H
3103 Interactions Of Radiation With Matter Prerequisites: Math 2222, Physics 2135.	3.0- 3.0	73394	LEC	1A	MWF	01:00 - 01:50 pm	ARR		Graham,J
3205 Fundamentals Of Nuclear Engineering Prerequisite: Physics 2305 or Nuc Eng 3103; Math 3304.	3.0- 3.0	72128	LEC	1A	TTh	09:30 - 10:45 am	CSF	00G5D	Liu,X
3223 Reactor Heat Transfer Prerequisite: Nuc Eng 3221.	3.0- 3.0	70816	LEC	1A	TTh	09:30 - 10:45 am	CH	00104	Schlegel,J
4000 Special Problems	0.0- 6.0	71466	IND	6A	ARR	ARR	ARR		Alajo,A
	0.0- 6.0	70817	IND	6B	ARR	ARR	ARR		Castano,C
	0.0- 6.0	70818	IND	6C	ARR	ARR	ARR		Lee,H
	0.0- 6.0	70819	IND	6D	ARR	ARR	ARR		Liu,X
	0.0- 6.0	71647	IND	6E	ARR	ARR	ARR		Mueller,G
	0.0- 6.0	71833	IND	6F	ARR	ARR	ARR		Schlegel,J
	0.0- 6.0	72246	IND	6G	ARR	ARR	ARR		Usman,S
4010 Seminar Prerequisite: Senior Standing.	0.0- 6.0	70823	RSD	2A	M	12:00 - 12:50 pm	FUL	00227	Castano,C
4099 Undergraduate Research	0.0- 6.0	71130	IND	6A	ARR	ARR	ARR		Alajo,A
	0.0- 6.0	70826	IND	6B	ARR	ARR	ARR		Castano,C
	0.0- 6.0	70827	IND	6C	ARR	ARR	ARR		Lee,H
	0.0- 6.0	71855	IND	6D	ARR	ARR	ARR		Liu,X
	0.0- 6.0	71856	IND	6E	ARR	ARR	ARR		Mueller,G
	0.0- 6.0	72102	IND	6F	ARR	ARR	ARR		Schlegel,J
	0.0- 6.0	72180	IND	6G	ARR	ARR	ARR		Smith,J
	0.0- 6.0	72199	IND	6H	ARR	ARR	ARR		Usman,S
4203 Reactor Physics I Prerequisite: Nuc Eng 3205.	3.0- 3.0	70820	LEC	1A	MWF	10:00 - 10:50 am	FUL	00220	Liu,X

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
4229 Nuclear Power Plant Systems Prerequisites: Nuc Eng 3205 and accompanied or preceded by Nuc Eng 3223.	3.0- 3.0	70824	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	73549	LEC	1A	TTh	11:00 - 12:15 pm	CH	00104	Schlegel,J	
4312 Nuclear Radiation Measurements and Spectroscopy Prerequisite: Nuc Eng 3205.	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	FUL	00227	Lee,H	
	3.0- 3.0	71180	LAB	3A	T	02:00 - 04:45 pm	FUL	00214	Lee,H	
	Communication Emphasized									
	3.0- 3.0	71181	LAB	3B	Th	02:00 - 04:45 pm	FUL	00214	Lee,H	
	Communication Emphasized									
3.0- 3.0	71781	LAB	3C	W	02:00 - 04:45 pm	FUL	00214	Lee,H		
Communication Emphasized										
4345 Nuclear Engineering Mathematical Methods Prerequisites: Nuc Eng 4203.	3.0- 3.0	72904	LEC	1A	MWF	09:00 - 09:50 am	FUL	00209	Mueller,G	
4347 Radiological Engineering Prerequisite: Nuc Eng 3205.	3.0- 3.0	71718	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00254	Usman,S	
4361 Fusion Fundamentals Prerequisite: Preceded or accompanied by Math 3304.	3.0- 3.0	73566	LEC	1A	MWF	11:00 - 11:50 am	BCH	00314	Graham,J	
4438 Reactor Laboratory II Prerequisite: Nuc Eng 4428.	2.0- 2.0		LEC	1A	M	02:00 - 02:50 pm	FUL	00227	Castano,C	
	2.0- 2.0	70822	LAB	3A	ARR	ARR	ARR		Usman,S	
	2.0- 2.0	72136	LAB	3B	ARR	ARR	ARR		Usman,S	
4456 Reactor Operation II Prerequisite: Nuc Eng 2105, 2406.	1.0- 1.0	71531	LAB	3A	ARR	ARR	ARR		Liu,X	
4497 Nuclear System Design II Prerequisite: Nuc Eng 4496.	3.0- 3.0	70825	LEC	1A	T	02:00 - 04:45 pm	FUL	00220	Alajo,A	
5203 Reactor Physics I Prerequisite: Nuc Eng 3205.	3.0- 3.0	72247	LEC	1A	MWF	10:00 - 10:50 am	FUL	00220	Liu,X	
5257 Introduction to Nuclear Thermal Hydraulics	3.0- 3.0	73550	LEC	1A	TTh	11:00 - 12:15 pm	CH	00104	Schlegel,J	
5312 Nuclear Radiation Measurements and Spectroscopy Prerequisite: Nuc Eng 3205.	3.0- 3.0		LEC	1A	TTh	11:00 - 11:50 am	FUL	00227	Lee,H	
	3.0- 3.0	72249	LAB	3A	T	02:00 - 04:45 pm	FUL	00214	Lee,H	
	3.0- 3.0	72250	LAB	3B	Th	02:00 - 04:45 pm	FUL	00214	Lee,H	
	3.0- 3.0	72251	LAB	3C	W	02:00 - 04:45 pm	FUL	00214	Lee,H	
5347 Radiological Engineering Prerequisite: Nuc Eng 3205.	3.0- 3.0	72559	LEC	1A	TTh	12:30 - 01:45 pm	TMH	00254	Usman,S	
5438 Reactor Laboratory II Prerequisite: Nuc Eng 4428.	2.0- 2.0		LEC	1A	M	02:00 - 02:50 pm	FUL	00227	Castano,C	
	2.0- 2.0	73123	LAB	3A	ARR	ARR	ARR		Usman,S	
6000 Special Problems	0.0- 6.0	70828	IND	6A	ARR	ARR	ARR		Al Dahhan,M	
	0.0- 6.0	70830	IND	6B	ARR	ARR	ARR		Lee,H	
	0.0- 6.0	70829	IND	6C	ARR	ARR	ARR		Mueller,G	
	0.0- 6.0	71929	IND	6D	ARR	ARR	ARR		Usman,S	
	0.0- 6.0	70831	RSD	2A	M	12:00 - 12:50 pm	FUL	00227	Usman,S	
6010 Seminar	0.0- 6.0	70831	RSD	2A	M	12:00 - 12:50 pm	FUL	00227	Usman,S	
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70835	IND	6A	ARR	ARR	ARR		Lee,H	
6050 Continuous Registration Doctoral Students Only. Graduate Office permission required.	1.0- 1.0	70836	IND	6A	ARR	ARR	ARR		Lee,H	
6085 Internship DE Students Only.	0.0-15.0	70834	IND	6A	ARR	ARR	ARR		Lee,H	
6099 Research	0.0-15.0	71467	IND	6A	ARR	ARR	ARR		Alajo,A	
	0.0-15.0	71131	IND	6B	ARR	ARR	ARR		Al Dahhan,M	
	0.0-15.0	70832	IND	6C	ARR	ARR	ARR		Castano,C	
	0.0-15.0	70833	IND	6D	ARR	ARR	ARR		Graham,J	
	0.0-15.0	71742	IND	6E	ARR	ARR	ARR		Lee,H	
	0.0-15.0	71766	IND	6F	ARR	ARR	ARR		Liu,X	
	0.0-15.0	71834	IND	6G	ARR	ARR	ARR		Mueller,G	
	0.0-15.0	72200	IND	6H	ARR	ARR	ARR		Schlegel,J	
	0.0-15.0	73032	IND	6J	ARR	ARR	ARR		Usman,S	
	6203 Advanced Reactor Physics Prerequisite: Math 5325.	3.0- 3.0	72012	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	72338	LEC	1A	MWF	09:00 - 09:50 am	CS	00207	Hilgedick,S
3000	Special Problems Prerequisite: Consent of instructor.	1.0- 3.0	70838	IND	6A	ARR	ARR	ARR		Bai,B
		1.0- 3.0	70839	IND	6B	ARR	ARR	ARR		Dunn Norman,S
		1.0- 3.0	71483	IND	6C	ARR	ARR	ARR		Eckert,A
		1.0- 3.0	71484	IND	6D	ARR	ARR	ARR		Flori,R
		1.0- 3.0	71485	IND	6E	ARR	ARR	ARR		
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	Heidari,P
		3.0- 3.0	71179	LAB	3A	M	01:00 - 03:30 pm	MCNT	00114	Heidari,P
		3.0- 3.0	72774	LAB	3B	T	01:00 - 03:30 pm	MCNT	000B14	Heidari,P
		3.0- 3.0	72775	LAB	3C	Th	01:00 - 01:50 pm	MCNT	00130	Heidari,P
3520	Petroleum Reservoir Engineering Prerequisite: Accompanied or preceded by Pet Eng 2510.	3.0- 3.0	70837	LEC	1A	MWF	09:00 - 09:50 am	SHNK	000G3	Flori,R
4097	Petroleum Engineering Design Prerequisites: Pet Eng 3520, Pet Eng 3410, and senior standing.	3.0- 3.0	72908	LEC	1A	W	02:00 - 04:30 pm	MCNT	00114	Flori,R
		3.0- 3.0	73075	LEC	1B	W	05:00 - 07:30 pm	MCNT	00114	
4211	Advanced Drilling Technology Prerequisites: Pet Eng 4210.	3.0- 3.0	73234	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	71347	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	71816	LEC	1A	TTh	12:30 - 01:45 pm	MCNT	00212	Dunn Norman,S
4531	Natural Gas Engineering Prerequisite: Preceded or accompanied by Pet Eng 3520.	3.0- 3.0	71963	LEC	1A	MWF	01:00 - 01:50 pm	MCNT	00211	Wei,M
4590	Petroleum Economics and Asset Valuation Prerequisites: Pet Eng 3520, Econ 1100 or Econ 1200.	3.0- 3.0	71962	LEC	1A	MWF	11:00 - 11:50 am	TMH	00251	Hilgedick,S
4611	Secondary Recovery Of Petroleum Prerequisites: Pet Eng 3520, Pet Eng 3529.	3.0- 3.0	72714	LEC	1A	TTh	09:30 - 10:45 am	CSF	00G5E	Bai,B
4631	Applied Reservoir Simulation Prerequisite: Pet Eng 3520.	3.0- 3.0	72441	LEC	1A	MWF	10:00 - 10:50 am	TMH	00251	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	71487	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	72339	LEC	1A	MWF	08:00 - 08:50 am	CS	00207	Hilgedick,S
4811	Offshore Petroleum Technology	3.0- 3.0	73505	LEC	1A	TTh	08:00 - 09:15 am	MCNT	00130	Hendrix,R
5000	Special Problems	0.0- 6.0	71315	IND	6A	ARR	ARR	ARR		Bai,B
		0.0- 6.0	71317	IND	6B	ARR	ARR	ARR		Dunn Norman,S
		0.0- 6.0	71332	IND	6C	ARR	ARR	ARR		Eckert,A
		0.0- 6.0	71488	IND	6D	ARR	ARR	ARR		Flori,R
		0.0- 6.0	71489	IND	6E	ARR	ARR	ARR		Hilgedick,S
		0.0- 6.0	73115	IND	6F	ARR	ARR	ARR		
5010	Seminar	0.0- 6.0	71064	RSD	2A	M	04:00 - 04:50 pm	MCNT	00204	Flori,R
5040	Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate office permission required.	0.0- 0.0	70843	IND	6A	ARR	ARR	ARR		
5085	Internship DE Students Only.	0.0-15.0	70842	IND	6A	ARR	ARR	ARR		Dunn Norman,S
5099	Research Prerequisite: Consent of instructor.	0.0-12.0	70840	IND	6A	ARR	ARR	ARR		Bai,B
		0.0-12.0	70841	IND	6B	ARR	ARR	ARR		Dunn Norman,S
		0.0-12.0	71348	IND	6C	ARR	ARR	ARR		Eckert,A
		0.0-12.0	71349	IND	6D	ARR	ARR	ARR		Flori,R
		0.0-12.0	71490	IND	6E	ARR	ARR	ARR		Heidari,P
		0.0-12.0	71970	IND	6F	ARR	ARR	ARR		Wei,M
		0.0-12.0	73006	IND	6G	ARR	ARR	ARR		

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
6001 Special Topics	3.0- 3.0	73366	LEC	1A	M	02:00 - 04:50 pm	MCNT	00130	Eckert,A
									Adv Mechanical Earth Modeling Prerequisites: Pet Eng 4710 and Pet Eng 4720.
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70844	IND	6A	ARR	ARR	ARR		Dunn Norman,S
6541 Advanced Reservoir Engineering I Prerequisites: Pet Eng 5631 and Pet Eng 4520.	3.0- 3.0	72119	LEC	1A	TTh	02:00 - 03:15 pm	MCNT	00130	Bai,B

Philosophy

1105 Introduction To Philosophy Prerequisite: Entrance requirements.	3.0- 3.0	72253	LEC	1A	MWF	10:00 - 10:50 am	H-SS	00101	Taylor,A
	3.0- 3.0	71541	LEC	1B	ARR	ARR	ARR		Finch,J
	3.0- 3.0	71823	LEC	1C	ARR	ARR	ARR		Finch,J
	3.0- 3.0	73378	LEC	1D	TTh	12:30 - 01:45 pm	H-SS	00201	Reed,R
	3.0- 3.0	71846	LEC	1E	TTh	09:30 - 10:45 am	H-SS	000G8	Reed,R
1115 Introduction To Logic Prerequisite: Entrance requirements.	3.0- 3.0	70845	LEC	1A	ARR	ARR	ARR		Finch,D
	3.0- 3.0	72125	LEC	1B	TTh	02:00 - 03:15 pm	H-SS	00101	Finke,D
1130 Introduction to Ethics	3.0- 3.0	72604	LEC	1A	ARR	ARR	ARR		Finch,J
2001 Special Topics	3.0- 3.0	73519	LEC	1A	ARR	ARR	ARR		Finch,J
									Ethics in Science
									UM Shared Course-Secondary
3204 Ancient Philosophy Prerequisites: An introductory (below 2000) level Philosophy course.	3.0- 3.0	73517	LEC	1A	ARR	ARR	ARR		Finch,J
									UM Shared Course-Primary
3223 Bioethics Prerequisite: Sophomore standing or above.	3.0- 3.0	71344	LEC	1A	MWF	11:00 - 11:50 am	IDE	000G4A	Taylor,A
3235 Business Ethics Prerequisite: Sophomore standing or above.	3.0- 3.0	71416	LEC	1A	MWF	01:00 - 01:50 pm	IDE	000G4A	Taylor,A
	3.0- 3.0	72399	LEC	1B	MWF	02:00 - 02:50 pm	IDE	00206	Taylor,A
	3.0- 3.0	73376	LEC	1C	MWF	03:00 - 03:50 pm	IDE	00206	Dittmer,J
	3.0- 3.0	72605	LEC	1D	MWF	04:00 - 04:50 pm	IDE	00206	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	72254	LEC	1A	TTh	11:00 - 12:15 pm	FUL	00220	Finke,D
4000 Special Problems	0.0- 6.0	71379	IND	6A	ARR	ARR	ARR		Dittmer,J
4325 Epistemology: Knowledge and Justification Prerequisite: Any 1000 or higher level philosophy course. Philosophy 1105 recommended.	3.0- 3.0	73514	LEC	1A	TTh	12:30 - 01:45 pm	H-SS	00203	Finke,D
4360 Foundations Of Political Conflict Prerequisite: Any introductory (below 2000) level Philosophy course.	3.0- 3.0	73377	LEC	1A	M	06:00 - 08:30 pm	H-SS	000G8	Dittmer,J

Physical Education

1100 Weight Training	1.0- 1.0	70847	LAB	3A	MW	09:00 - 09:50 am	ARR		White,N
	1.0- 1.0	70848	LAB	3B	TTh	09:30 - 10:20 am	ARR		
1102 Fundamentals Of Golf	1.0- 1.0	72769	LAB	3A	MW	01:00 - 02:40 pm	ARR		Lind,J
1108 Beginning Racquetball	1.0- 1.0	70846	LAB	3A	TTh	09:30 - 10:20 am	M-PUR	00G26	McCauley,J
	1.0- 1.0	72101	LAB	3B	TTh	11:00 - 11:50 am	ARR		McFarland,M

Physics

1135 Engineering Physics I Prerequisite: Math 1208 or 1214. Students must enroll in a LEC, RSD, and a LAB. Students are scheduled for group exams from 5:00 to 6:00pm on Wednesdays: Feb. 15, Mar. 22, and Apr. 19.	0.0- 0.0	70849	LEC	1AA	TTh	09:00 - 09:50 am	PHYS	00104	Vojta,A
									See 'Notes' for Evening Exams
	0.0- 0.0	70850	LEC	1BB	TTh	10:00 - 10:50 am	PHYS	00104	Vojta,A
									See 'Notes' for Evening Exams
	0.0- 0.0	70851	LEC	1CC	ARR	ARR	ARR		Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	70852	RSD	2A	WF	08:00 - 08:50 am	PHYS	00130	Vojta,A
									See 'Notes' for Evening Exams
	4.0- 4.0	70853	RSD	2B	WF	08:00 - 08:50 am	PHYS	00129	Vojta,A
									See 'Notes' for Evening Exams

4.0-4.0	70854	RSD	2C	WF	09:00 - 09:50 am	PHYS	00130	Vojta,A	
		See 'Notes' for Evening Exams							
4.0-4.0	70855	RSD	2D	WF	09:00 - 09:50 am	PHYS	00129	Vojta,A	
		See 'Notes' for Evening Exams							
4.0-4.0	71353	RSD	2E	WF	09:00 - 09:50 am	PHYS	00127	Vojta,A	
		See 'Notes' for Evening Exams							
4.0-4.0	70856	RSD	2F	WF	10:00 - 10:50 am	PHYS	00130	Vojta,A	
		See 'Notes' for Evening Exams							
4.0-4.0	70857	RSD	2G	WF	10:00 - 10:50 am	PHYS	00129	Vojta,A	
		See 'Notes' for Evening Exams							
4.0-4.0	71354	RSD	2H	WF	10:00 - 10:50 am	BCH	00216	Vojta,A	
		See 'Notes' for Evening Exams							
4.0-4.0	70858	RSD	2J	WF	11:00 - 11:50 am	PHYS	00130	Vojta,A	
		See 'Notes' for Evening Exams							
4.0-4.0	70859	RSD	2K	WF	11:00 - 11:50 am	PHYS	00129	Vojta,A	
		See 'Notes' for Evening Exams							
4.0-4.0	71355	RSD	2L	WF	11:00 - 11:50 am	EECH	00104	Vojta,A	
		See 'Notes' for Evening Exams							
4.0-4.0	70860	RSD	2M	WF	12:00 - 12:50 pm	PHYS	00130	Vojta,A	
		See 'Notes' for Evening Exams							
4.0-4.0	71292	RSD	2N	WF	12:00 - 12:50 pm	PHYS	00129	Vojta,A	
		See 'Notes' for Evening Exams							
4.0-4.0	72356	RSD	2P	WF	12:00 - 12:50 pm	PHYS	00127	Vojta,A	
		See 'Notes' for Evening Exams							
4.0-4.0	72357	RSD	2Q	WF	01:00 - 01:50 pm	PHYS	00130	Vojta,A	
		See 'Notes' for Evening Exams							
4.0-4.0	72358	RSD	2R	WF	01:00 - 01:50 pm	PHYS	00129	Vojta,A	
		See 'Notes' for Evening Exams							
4.0-4.0	72777	RSD	2T	WF	01:00 - 01:50 pm	PHYS	00127	Vojta,A	
		See 'Notes' for Evening Exams							
0.0-0.0	70861	LAB	3L01	M	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70862	LAB	3L02	M	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70863	LAB	3L03	M	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70864	LAB	3L04	M	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70865	LAB	3L05	M	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70866	LAB	3L06	M	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70867	LAB	3L07	T	11:00 - 12:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70868	LAB	3L08	T	11:00 - 12:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70869	LAB	3L09	T	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70870	LAB	3L10	T	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70871	LAB	3L11	T	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70872	LAB	3L12	T	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70873	LAB	3L13	T	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70874	LAB	3L14	T	06:00 - 07:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70875	LAB	3L15	W	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70876	LAB	3L16	W	01:00 - 02:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	70877	LAB	3L17	W	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							
0.0-0.0	71293	LAB	3L18	W	03:00 - 04:50 pm	PHYS	00215	Waddill,G	
		See 'Notes' for Evening Exams							

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 0.0	71294	LAB	3L19	Th	11:00 - 12:50 pm	PHYS	00215	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	71295	LAB	3L20	Th	11:00 - 12:50 pm	PHYS	00215	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	71296	LAB	3L21	Th	01:00 - 02:50 pm	PHYS	00215	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	71732	LAB	3L22	Th	01:00 - 02:50 pm	PHYS	00215	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72359	LAB	3L23	Th	03:00 - 04:50 pm	PHYS	00215	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72360	LAB	3L24	Th	03:00 - 04:50 pm	PHYS	00215	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72361	LAB	3L25	Th	06:00 - 07:50 pm	PHYS	00215	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72362	LAB	3L26	Th	06:00 - 07:50 pm	PHYS	00215	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72363	LAB	3L27	F	01:00 - 02:50 pm	PHYS	00215	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72364	LAB	3L28	F	01:00 - 02:50 pm	PHYS	00215	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72365	LAB	3L29	F	01:00 - 02:50 pm	PHYS	00213	Waddill,G
			See 'Notes' for Evening Exams						
	0.0- 0.0	72778	LAB	3L30	F	01:00 - 02:50 pm	PHYS	00213	Waddill,G
			See 'Notes' for Evening Exams						
1505	Introductory Astronomy	3.0- 3.0	LEC	1A	MWF	03:00 - 03:50 pm	PHYS	00104	Story,J
1509	Astronomy Laboratory	1.0- 1.0	LAB	3A	M	06:00 - 07:50 pm	PHYS	00213	Story,J
	Prerequisite: Preceded or accompanied by Physics 1505 or 1515.	1.0- 1.0	LAB	3B	W	06:00 - 07:50 pm	PHYS	00213	Story,J
2119	General Physics Laboratory	1.0- 1.0	LAB	3A	T	03:00 - 04:50 pm	PHYS	00214	Waddill,G
	Prerequisite: Preceded or accompanied by either Physics 2111 or Physics 2145.	1.0- 1.0	LAB	3B	Th	06:00 - 07:50 pm	PHYS	00214	Waddill,G
2129	Intermediate Physics Laboratory	3.0- 3.0	LEC	1A	T	01:00 - 01:50 pm	PHYS	00218	Hor,Y
		3.0- 3.0	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	0.0- 0.0	LEC	1AA	MW	09:00 - 09:50 am	PHYS	00104	Waddill,G
	Prerequisites: Physics 1135 or Physics 1111, Math 1221 or Math 1215. Students must enroll in a LEC, RSD, and a LAB. Students are scheduled for group exams from 5:00 to 6:00pm on Tuesdays: Feb. 14, Mar. 21, and Apr. 18.	0.0- 0.0	LEC	1BB	MW	10:00 - 10:50 am	PHYS	00104	Waddill,G
		0.0- 0.0	LEC	1CC	ARR	ARR	ARR		Waddill,G
			See 'Notes' for Evening Exams						
		4.0- 4.0	RSD	2A	TTh	08:00 - 08:50 am	PHYS	00129	Waddill,G
			See 'Notes' for Evening Exams						
		4.0- 4.0	RSD	2B	TTh	09:00 - 09:50 am	ARR		Waddill,G
			See 'Notes' for Evening Exams						
		4.0- 4.0	RSD	2C	TTh	09:00 - 09:50 am	PHYS	00129	Waddill,G
			See 'Notes' for Evening Exams						
		4.0- 4.0	RSD	2D	TTh	09:00 - 09:50 am	PHYS	00130	Waddill,G
			See 'Notes' for Evening Exams						
		4.0- 4.0	RSD	2E	TTh	10:00 - 10:50 am	PHYS	00129	Waddill,G
			See 'Notes' for Evening Exams						
		4.0- 4.0	RSD	2F	TTh	10:00 - 10:50 am	PHYS	00130	Waddill,G
			See 'Notes' for Evening Exams						
		4.0- 4.0	RSD	2G	TTh	11:00 - 11:50 am	PHYS	00129	Waddill,G
			See 'Notes' for Evening Exams						
		4.0- 4.0	RSD	2H	TTh	11:00 - 11:50 am	PHYS	00130	Waddill,G
			See 'Notes' for Evening Exams						
		4.0- 4.0	RSD	2J	TTh	12:00 - 12:50 pm	PHYS	00129	Waddill,G
			See 'Notes' for Evening Exams						
		4.0- 4.0	RSD	2K	TTh	12:00 - 12:50 pm	PHYS	00130	Waddill,G
			See 'Notes' for Evening Exams						
		4.0- 4.0	RSD	2L	TTh	01:00 - 01:50 pm	PHYS	00129	Waddill,G
			See 'Notes' for Evening Exams						
		4.0- 4.0	RSD	2M	TTh	01:00 - 01:50 pm	PHYS	00130	Waddill,G
			See 'Notes' for Evening Exams						
		4.0- 4.0	RSD	2N	TTh	10:00 - 10:50 am	IDE	00202	Waddill,G
			See 'Notes' for Evening Exams						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	0.0- 0.0	70886	LAB	3L01	M	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	70887	LAB	3L02	M	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	70888	LAB	3L03	M	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	70889	LAB	3L04	M	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	70890	LAB	3L05	M	06:00 - 07:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	70891	LAB	3L06	M	06:00 - 07:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	70892	LAB	3L07	M	11:00 - 12:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	70893	LAB	3L08	M	11:00 - 12:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	70894	LAB	3L09	T	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	70895	LAB	3L10	T	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	70896	LAB	3L11	W	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	70897	LAB	3L12	W	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	70898	LAB	3L13	W	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	71195	LAB	3L15	W	06:00 - 07:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	71252	LAB	3L17	W	11:00 - 12:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	71598	LAB	3L14	W	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	71599	LAB	3L16	W	06:00 - 07:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	71849	LAB	3L18	W	11:00 - 12:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	72368	LAB	3L19	Th	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	72369	LAB	3L20	Th	01:00 - 02:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	72370	LAB	3L21	Th	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
	0.0- 0.0	72786	LAB	3L22	Th	03:00 - 04:50 pm	PHYS	00214	Waddill,G	
									See 'Notes' for Evening Exams	
2145	College Physics II	3.0- 3.0	71250	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	70900	LEC	1A	MWF	02:00 - 02:50 pm	PHYS	00104	Story,J
	Prerequisites: Math 2222 and Physics 2135 or 2111.									
2401	Introduction To Theoretical Physics	3.0- 3.0	71176	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	70905	IND	6A	ARR	ARR	ARR		Hale,B
		0.0- 6.0	70906	IND	6B	ARR	ARR	ARR		Peacher,J
		0.0- 6.0	70907	IND	6C	ARR	ARR	ARR		Pringle,O
		0.0- 6.0	71395	IND	6D	ARR	ARR	ARR		Vojta,S
		0.0- 6.0	73102	IND	6E	ARR	ARR	ARR		Medvedeva,I
3119	Advanced Physics Laboratory I	3.0- 3.0	71074	LAB	3A	TTh	12:30 - 03:15 pm	PHYS	00219	Fischer,D
	Prerequisite: Physics 2129									
3129	Advanced Physics Laboratory II	3.0- 3.0	70908	LAB	3A	TTh	12:30 - 03:15 pm	PHYS	00219	Fischer,D
	Prerequisite: Physics 2129.									
3211	Electricity And Magnetism I	3.0- 3.0	70904	LEC	1A	MWF	10:00 - 10:50 am	PHYS	00127	Peacher,J
	Prerequisite: Physics 2401.									
4099	Undergraduate Research	0.0- 6.0	70910	IND	6A	ARR	ARR	ARR		Chernatynskiy,A
		0.0- 6.0	70911	IND	6B	ARR	ARR	ARR		Fischer,D
		0.0- 6.0	70912	IND	6C	ARR	ARR	ARR		Hale,B

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
	0.0- 6.0	70913	IND	6D	ARR	ARR	ARR		Hor,Y
	0.0- 6.0	70914	IND	6E	ARR	ARR	ARR		Jentschura,U
	0.0- 6.0	70915	IND	6F	ARR	ARR	ARR		Kurter,C
	0.0- 6.0	70916	IND	6G	ARR	ARR	ARR		Madison,D
	0.0- 6.0	70917	IND	6H	ARR	ARR	ARR		Medvedeva,I
	0.0- 6.0	70918	IND	6J	ARR	ARR	ARR		Parris,P
	0.0- 6.0	71205	IND	6K	ARR	ARR	ARR		Peacher,J
	0.0- 6.0	71206	IND	6L	ARR	ARR	ARR		Pringle,O
	0.0- 6.0	71247	IND	6M	ARR	ARR	ARR		Schulz,M
	0.0- 6.0	71248	IND	6N	ARR	ARR	ARR		Story,J
	0.0- 6.0	71249	IND	6P	ARR	ARR	ARR		Vojta,S
	0.0- 6.0	71745	IND	6Q	ARR	ARR	ARR		Waddill,G
	0.0- 6.0	72787	IND	6R	ARR	ARR	ARR		Wilemski,G
	0.0- 6.0	72788	IND	6T	ARR	ARR	ARR		Yamilov,A
4311 Thermal Physics Prerequisite: Physics 2305 or 2311.	3.0- 3.0	72100	LEC	1A	TTh	11:00 - 12:15 pm	PHYS	00127	Wilemski,G
4513 Laser Physics Prerequisite: Physics 2305 or 2311.	3.0- 3.0	70909	LEC	1A	MWF	11:00 - 11:50 am	PHYS	00127	Story,J
5211 Electrodynamics I Prerequisites: Physics 4211.	3.0- 3.0	70921	LEC	1A	TTh	11:00 - 12:15 pm	ARR		Jentschura,U
5301 Quantum Mechanics I Prerequisite: Physics 4301 or equivalent.	3.0- 3.0	70922	LEC	1A	TTh	09:30 - 10:45 am	PHYS	00127	Parris,P
5603 Advanced Physics Laboratory Teaching Methods Prerequisite: Graduate standing.	3.0- 3.0	71930	LEC	1A	ARR	ARR	ARR		Waddill,G
6000 Special Problems	0.0- 6.0	70919	IND	6A	ARR	ARR	ARR		Peacher,J
	0.0- 6.0	71148	IND	6B	ARR	ARR	ARR		Pringle,O
	0.0- 6.0	72145	IND	6C	ARR	ARR	ARR		Hor,Y
6002 Coop Registration	0.0- 1.0	70940	IND	6A	ARR	ARR	ARR		Peacher,J
6010 Seminar	0.0- 6.0	70920	RSD	2A	Th	03:30 - 05:20 pm	PHYS	00104	Fischer,D
6040 Oral Examination Student will be billed for one credit hour. Not required for students otherwise enrolled. Graduate Office permission required.	0.0- 0.0	70939	IND	6A	ARR	ARR	ARR		Waddill,G
6050 Continuous Registration Doctoral students only. Graduate Office permission required.	1.0- 1.0	70941	IND	6A	ARR	ARR	ARR		Waddill,G
6099 Research	0.0-15.0	70923	IND	6A	ARR	ARR	ARR		Chernatynskiy,A
	Distance Course Rates Apply								
	0.0-15.0	70924	IND	6B	ARR	ARR	ARR		Fischer,D
	0.0-15.0	70925	IND	6C	ARR	ARR	ARR		Hagen,D
	0.0-15.0	70926	IND	6D	ARR	ARR	ARR		Hale,B
	0.0-15.0	70927	IND	6E	ARR	ARR	ARR		Hor,Y
	0.0-15.0	70928	IND	6F	ARR	ARR	ARR		Jentschura,U
	0.0-15.0	70929	IND	6G	ARR	ARR	ARR		Kurter,C
	0.0-15.0	70930	IND	6H	ARR	ARR	ARR		Madison,D
	0.0-15.0	70931	IND	6J	ARR	ARR	ARR		Medvedeva,I
	0.0-15.0	70932	IND	6K	ARR	ARR	ARR		Parris,P
	0.0-15.0	70933	IND	6L	ARR	ARR	ARR		Peacher,J
	0.0-15.0	70934	IND	6M	ARR	ARR	ARR		Pringle,O
	0.0-15.0	70935	IND	6N	ARR	ARR	ARR		Schulz,M
	0.0-15.0	70936	IND	6P	ARR	ARR	ARR		Story,J
	0.0-15.0	70937	IND	6Q	ARR	ARR	ARR		Vojta,S
	0.0-15.0	70938	IND	6R	ARR	ARR	ARR		Waddill,G
	0.0-15.0	72790	IND	6T	ARR	ARR	ARR		Wilemski,G
	0.0-15.0	72791	IND	6U	ARR	ARR	ARR		Yamilov,A

Political Science

1200 American Government	3.0- 3.0	72050	LEC	1A	MWF	01:00 - 01:50 pm	H-SS	00101	Meagher,M
	3.0- 3.0	72051	LEC	1B	MWF	02:00 - 02:50 pm	H-SS	00101	Meagher,M
	3.0- 3.0	73085	LEC	1C	TTh	09:30 - 10:45 am	IDE	00105	Isaac,T
	3.0- 3.0	73183	LEC	1D	TTh	11:00 - 12:15 pm	IDE	00105	Isaac,T
	3.0- 3.0	73184	LEC	1E	TTh	12:30 - 01:45 pm	IDE	00105	Isaac,T

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
3310 Public Policy Analysis Prerequisite: Pol Sci 1200.	3.0- 3.0	73186	LEC	1A	TTh	03:30 - 04:45 pm	H-SS	00103	Isaac,T
3762 American Diplomatic History Since World War II Prerequisite: History 1310 or Pol Sci 1200. (Co-listed with History 3762)	3.0- 3.0	73185	LEC	1A	W	06:00 - 08:45 pm	H-SS	00101	Meagher,M
4000 Special Problems And Readings	0.0- 6.0	70942	IND	6A	ARR	ARR	ARR		Meagher,M
4001 Special Topics STEAM Diplomacy Prerequisite: Junior or Senior standing.	3.0- 3.0	73599	LEC	1A	TTh	12:30 - 01:45 pm	BCH	00215	Oerther,D
4085 Political Science Internship Prerequisite: Pol Sci 1200 or Pol Sci 1100.	0.0- 6.0	70943	IND	6A	ARR	ARR	ARR		Meagher,M

Pre-Medicine

3010 Communication Workshop for the Pre-Health Student Prerequisite: Junior Standing.	1.0- 1.0	71372	RSD	6A	M	02:00 - 02:50 pm	CH	00104	Shannon,K
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Psychology

1101 General Psychology	3.0- 3.0	70944	LEC	1A	MWF	09:00 - 09:50 am	H-SS	000G5	Krueger,M	
	3.0- 3.0	70945	LEC	1B	TTh	11:00 - 12:15 pm	PHYS	00104	Cundiff,J	
	3.0- 3.0	73117	LEC	1C	TTh	02:00 - 03:15 pm	PHYS	00104	Stone,N	
	3.0- 3.0	70946	LEC	1D	Th	06:00 - 08:45 pm	BCH	00121	Gianladis,E	
	3.0- 3.0	73455	LEC	1E	TTh	12:30 - 01:45 pm	TMH	00295	Baker,D	
2200 Research Methods Prerequisites: Psych 1101; Stat 1115, Stat 3113, or Stat 3115. Stat 1115 preferred.	4.0- 4.0		LEC	1A	TTh	09:30 - 10:45 am	H-SS	000G7	Klein,B	
	4.0- 4.0	71936	LAB	3A	T	02:00 - 05:00 pm	H-SS	00202	Klein,B	
2300 Educational Psychology Prerequisite: Psych 1101. (Co-listed with Educ 2102)	3.0- 3.0	72864	LEC	1A	M	04:00 - 06:30 pm	H-SS	00104	Spooner,P	
3311 Psychological & Educational Development Of The Adolescent Prerequisite: Psych 1101.	3.0- 3.0	71094	LEC	1A	M	06:00 - 08:45 pm	H-SS	000G7	Haemmerlie,F	
	3.0- 3.0	71418	LEC	1B	MWF	01:00 - 01:50 pm	TMH	00256	Krueger,M	
4000 Special Problems And Readings In Psychology	0.0- 6.0	71468	IND	6A	ARR	ARR	ARR		Baker,D	
	0.0- 6.0	70947	IND	6B	ARR	ARR	ARR		Burns,D	
	0.0- 6.0	71653	IND	6C	ARR	ARR	ARR		Cundiff,J	
	0.0- 6.0	70948	IND	6D	ARR	ARR	ARR		Henslee,A	
	0.0- 6.0	71937	IND	6E	ARR	ARR	ARR		Klein,B	
	0.0- 6.0	72598	IND	6F	ARR	ARR	ARR		Kueny,C	
	0.0- 6.0	73120	IND	6G	ARR	ARR	ARR		Murray,S	
	0.0- 6.0	73356	IND	6H	ARR	ARR	ARR		Shank,D	
	0.0- 6.0	73357	IND	6J	ARR	ARR	ARR		Sharpsteen,D	
	0.0- 6.0	73358	IND	6K	ARR	ARR	ARR		Stone,N	
	0.0- 6.0	73456	IND	6L	ARR	ARR	ARR		Weidner,N	
	4099 Undergraduate Research Prerequisite: Instructor consent.	0.0- 6.0	71469	IND	6A	ARR	ARR	ARR		Baker,D
		0.0- 6.0	70949	IND	6B	ARR	ARR	ARR		Burns,D
0.0- 6.0		71655	IND	6C	ARR	ARR	ARR		Cundiff,J	
0.0- 6.0		70950	IND	6D	ARR	ARR	ARR		Henslee,A	
0.0- 6.0		71938	IND	6E	ARR	ARR	ARR		Klein,B	
0.0- 6.0		72599	IND	6F	ARR	ARR	ARR		Kueny,C	
0.0- 6.0		73457	IND	6G	ARR	ARR	ARR		Shank,D	
0.0- 6.0		73458	IND	6H	ARR	ARR	ARR		Sharpsteen,D	
0.0- 6.0		73459	IND	6J	ARR	ARR	ARR		Stone,N	
0.0- 6.0		73460	IND	6K	ARR	ARR	ARR		Weidner,N	
4200 Tests and Measurements Prerequisite: Psych 1101.	3.0- 3.0	73552	LEC	1A	MWF	10:00 - 10:50 am	BCH	00317	Weidner,N	
4411 Sensation and Perception Prerequisite: Psych 1101.	3.0- 3.0	72046	LEC	1A	TTh	11:00 - 12:15 pm	CS	00205	Burns,D	
4510 Clinical Psychology Prerequisites: Psych 1101 and Psych 4501.	3.0- 3.0	71550	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	000G7	Henslee,A	
4590 Health Psychology Prerequisite: Psych 1101.	3.0- 3.0	73355	LEC	1A	TTh	12:30 - 01:45 pm	H-SS	000G7	Henslee,A	

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
4600 Social Psychology Prerequisite: Psych 1101.	3.0- 3.0	71601	LEC	1A	MWF	10:00 - 10:50 am	H-SS	000G7	Sharpsteen,D
			LEC	1A	ARR	ARR	ARR		
	3.0- 3.0	71654	LEC	1B	MWF	11:00 - 11:50 am	H-SS	000G7	Sharpsteen,D
			LEC	1B	ARR	ARR	ARR		
4602 Organizational Psychology Prerequisite: Psych 1101.	3.0- 3.0	72047	LEC	1A	TTh	02:00 - 03:15 pm	H-SS	00201	Kueny,C
4610 Psychology of Leadership in Organizations Prerequisite: Psych 1101.	3.0- 3.0	71048	LEC	1A	MWF	02:00 - 02:50 pm	H-SS	000G7	Weidner,N
	3.0- 3.0	73553	LEC	1B	CANCELLED				
4710 Human Factors Prerequisite: Psych 1101. (Co-listed with Eng Mgt 4330)	3.0- 3.0	72226	LEC	1A	TTh	09:30 - 10:45 am	EECH	00101	Baker,D
4720 Human-Computer Interaction Prerequisite: Psych 1101.	3.0- 3.0	73362	LEC	1A	MWF	09:00 - 09:50 am	IDE	000G4A	Shank,D
4730 Environmental Psychology Prerequisite: Psych 1101.	3.0- 3.0	73359	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00103	Stone,N
4990 Internship Prerequisite: Junior or Senior Psychology major; consent of instructor; must have completed 9 hours in major.	0.0- 6.0	72772	IND	6A	ARR	ARR	ARR		Henslee,A
	0.0- 6.0	73360	IND	6B	ARR	ARR	ARR		Murray,S
4992 Cross-Cultural Psychology Prerequisite: Psych 1101.	3.0- 3.0	73354	LEC	1A	MWF	11:00 - 11:50 am	H-SS	00104	Krueger,M
5000 Special Problems	0.0- 6.0	73073	IND	6A	ARR	ARR	ARR		Weidner,N
5201 Psychometrics Prerequisites: Psych 1101 and Psych 2200.	3.0- 3.0	72048	LEC	1A	M	07:00 - 09:30 pm	BERTELS	00B12A	Burns,D
5601 Advanced Group Dynamics Prerequisite: Psych 4601 or graduate standing.	3.0- 3.0	73361	LEC	1A	T	07:00 - 09:30 pm	BERTELS	00B12A	Shank,D
5602 Organizational Processes: Research and Practice Prerequisite: Psych 4602 or graduate standing.	3.0- 3.0	72190	LEC	1A	W	07:00 - 09:30 pm	LIB	000G14	Kueny,C
5603 Advanced Social Influence Prerequisite: Psych 4603 or graduate standing.	3.0- 3.0	72770	LEC	1A	T	04:00 - 06:30 pm	BERTELS	00B12A	Cundiff,J
6099 Research Prerequisites: Consent of instructor required.	0.0- 6.0	73565	IND	6A	ARR	ARR	ARR		Weidner,N
6610 Advanced Leadership Theory & Practice Prerequisite: Psych 4610 or graduate standing.	3.0- 3.0	73554	LEC	1A	W	07:00 - 09:30 pm	CS	00209	Weidner,N

Russian

1102 Elementary Russian II Prerequisite: Russian 1101.	4.0- 4.0	70951	LEC	1A	TTh	09:30 - 10:45 am	EMGT	00106	Ivliyeva,I
			LEC	1A	ARR	ARR	ARR		
4320 Russian Phonetics and Intonation Prerequisite: Russian 1102.	3.0- 3.0	71679	LEC	1A	TTh	08:00 - 08:50 am	H-SS	00202	Ivliyeva,I
			LEC	1A	ARR	ARR	ARR		
4360 Russian Civilization Prerequisite: Any 1000 or higher level history course.	3.0- 3.0	70952	LEC	1A	TTh	11:00 - 12:15 pm	H-SS	00201	Ivliyeva,I

Spanish

1101 Elementary Spanish I Prerequisites: Entrance requirements.	4.0- 4.0	72607	LEC	1A	MW	06:00 - 08:00 pm	H-SS	00202	Irwin,A
1102 Elementary Spanish II Prerequisite: Spanish 1101.	4.0- 4.0	72854	LEC	1A	MW	01:00 - 02:50 pm	CS	00216	Porcel,J
2000 Special Problems	0.0- 6.0	73564	IND	6A	ARR	ARR	ARR		Porcel,J
4000 Special Problems	0.0- 6.0	73584	IND	6A	ARR	ARR	ARR		Porcel,J
4311 Advanced Spanish Conversation Prerequisites: Any Spanish course at the 2000 or 3000 level.	2.0- 2.0	73515	LEC	1A	M	06:00 - 08:00 pm	H-SS	00103	Porcel,J

Speech & Media Studies

1185 Principles Of Speech Prerequisite: Entrance requirements.	3.0- 3.0	71259	LEC	1A	MWF	08:00 - 08:50 am	H-SS	00101	Devault,T
			Communication Intensive						

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR	
	3.0- 3.0	71109	LEC	1B	MWF	10:00 - 10:50 am	H-SS	000G9	Lillie,C	
			Communication Intensive							
	3.0- 3.0	70957	LEC	1C	MWF	11:00 - 11:50 am	H-SS	000G9	Lillie,C	
			Communication Intensive							
	3.0- 3.0	70958	LEC	1D	MWF	01:00 - 01:50 pm	H-SS	000G9	Lillie,C	
			Communication Intensive							
	3.0- 3.0	70953	LEC	1E	MWF	02:00 - 02:50 pm	H-SS	000G9	Lillie,C	
			Communication Intensive							
	3.0- 3.0	73025	LEC	1F	MWF	02:00 - 02:50 pm	H-SS	000G8	Devault,T	
			Communication Intensive							
	3.0- 3.0	71301	LEC	1G	MWF	03:00 - 03:50 pm	H-SS	00101	Devault,T	
			Communication Intensive							
	3.0- 3.0	70954	LEC	1H	TTh	09:30 - 10:45 am	H-SS	00104	Robertson,T	
			Communication Intensive							
	3.0- 3.0	71398	LEC	1J	TTh	02:00 - 03:15 pm	H-SS	000G9	Robertson,T	
			Communication Intensive							
	3.0- 3.0	70956	LEC	1K	TTh	06:00 - 07:15 pm	H-SS	000G9	Haynes,W	
			Communication Intensive							
	3.0- 3.0	73612	LEC	1L	TTh	11:00 - 12:15 pm	ARR			
			Communication Intensive							
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	Devault,T	
			Communication Emphasized							
3000	Special Problems	0.0- 6.0	IND	6A	ARR	ARR	ARR		Haynes,W	
3001	Special Topics	3.0- 3.0	LEC	1A	TTh	06:00 - 07:15 pm	H-SS	000G5	Haynes,W	
			Adv Speech Non-Native Speakers							
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	72256	LEC	1B	Th	06:00 - 09:00 pm	CSF	00114	Rupert,B
3235	Intercultural Communication	3.0- 3.0	LEC	1A	TTh	12:30 - 01:45 pm	H-SS	00101	Robertson,T	
	Prerequisite: Sp&M S 2181.									
3245	Voice, Diction and Interpretation	3.0- 3.0	LEC	1A	TTh	09:30 - 10:45 am	CASTL	00143	Stanley,J	
	(Co-listed with Theatre 3245)									
3265	Leadership Communication	3.0- 3.0	LEC	1A	CANCELLED					
	Prerequisites: Sp&M S 2181, 3250.									
4000	Special Problems	0.0- 6.0	IND	6A	ARR	ARR	ARR		Haynes,W	
5000	Special Problems	0.0- 6.0	IND	6A	CANCELLED					
Statistics										
1115	Statistics For The Social Sciences I	3.0- 3.0	LEC	1A	TTh	03:30 - 04:45 pm	CS	00205		
3111	Statistical Tools For Decision Making	3.0- 3.0	LEC	1A	TTh	02:00 - 02:50 pm	CS	00205		
	Prerequisite: Math 1208 or 1212 or 1214 with a grade of "C" or better.	3.0- 3.0	71098	LAB	3A	W	02:00 - 03:50 pm	CS	00206	
3113	Applied Engineering Statistics	3.0- 3.0	LEC	1A	MWF	10:00 - 10:50 am	CH	00104		
	Prerequisite: Math 1215 or 1221 with a grade of "C" or better.	3.0- 3.0	70963	LEC	1B	MWF	11:00 - 11:50 am	CH	00104	
		3.0- 3.0	71265	LEC	1C	TTh	09:30 - 10:45 am	MCNT	00212	
		3.0- 3.0	71266	LEC	1D	TTh	11:00 - 12:15 pm	MCNT	00211	
3115	Engineering Statistics	3.0- 3.0	LEC	1A	MWF	08:00 - 08:50 am	BCH	00314		
	Prerequisite: Math 1215 or 1221 with a grade of "C" or better.	3.0- 3.0	70964	LEC	1B	MWF	09:00 - 09:50 am	BCH	00314	
		3.0- 3.0	71267	LEC	1C	TTh	06:00 - 07:15 pm	CH	00104	
		3.0- 3.0	72156	LEC	1D	MWF	02:00 - 02:50 pm	TMH	00256	
3117	Introduction To Probability And Statistics	3.0- 3.0	LEC	1A	TTh	11:00 - 12:15 pm	CSF	00G5E	Wen,X	
	Prerequisite: Math 2222 with a grade of "C" or better.									
4000	Special Problems	0.0- 6.0	IND	6A	ARR	ARR	ARR		Adekpedjou,A	
		0.0- 6.0	71932	IND	6B	ARR	ARR	ARR	Samaranayake,V	
4099	Undergraduate Research	0.0- 6.0	IND	6A	ARR	ARR	ARR		Olbricht,G	
	Prerequisite: Consent of instructor.									
5346	Regression Analysis	3.0- 3.0	LEC	1A	TTh	02:00 - 03:15 pm	CH	00105	Olbricht,G	
	Prerequisites: Math 2222 and one of Stat 3111, 3113, 3115, 3117, or 5643. (Co-listed with Comp Sci 5204)									

CATALOG # AND COURSE TITLE	CREDIT	CLASS#	CMP	SEC	DAY	TIME	BLDG	ROOM	INSTRUCTOR
5643 Probability And Statistics Prerequisite: Math 2222.	3.0- 3.0	70968	LEC	1A	TTh	11:00 - 12:15 pm	CSF	00G5D	Olbricht,G
5644 Mathematical Statistics Prerequisite: Stat 5643.	3.0- 3.0	71093	LEC	1A	MWF	09:00 - 09:50 am	ROLLA	000G4	Adekpedjou,A
6000 Special Problems	0.0- 6.0	70969	IND	6A	ARR	ARR	ARR		Adekpedjou,A
	0.0- 6.0	70970	IND	6B	ARR	ARR	ARR		Samaranayake,V
6001 Special Topics	3.0- 3.0	73269	LEC	1A	MWF	11:00 - 11:50 am	CS	00202	Paige,R
									Statistical Shape Analysis Prerequisites: Math 2222 and one of Stat 3111, 3113, 3115, 3117 or 5643.
	3.0- 3.0	73271	LEC	1B	MWF	02:00 - 02:50 pm	ROLLA	000G4	Paige,R
									Statistical Learning Prerequisites: Math 2222; one of Math 3108, 5108, 6108; one of Stat 3111, 3113, 3115, 3117 or 5643.
	3.0- 3.0	73463	LEC	1C	W	04:00 - 06:30 pm	EMGT	00103	Qin,R
									Financial Data Analysis Prerequisites: An undergraduate calculus based statistics course and one of Eng Mgt 6212, Sys Eng 6612, Eng Mgt 6213, or Sys Eng 6613. (Co-listed with Eng Mgt 6001)
6099 Research	0.0-15.0	70972	IND	6A	ARR	ARR	ARR		Adekpedjou,A
	0.0-15.0	70973	IND	6B	ARR	ARR	ARR		Olbricht,G
	0.0-15.0	71139	IND	6C	ARR	ARR	ARR		Paige,R
	0.0-15.0	72003	IND	6D	ARR	ARR	ARR		Samaranayake,V
	0.0-15.0	72032	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	71841	LEC	1A	TTh	09:30 - 10:45 am	CH	00105	Samaranayake,V
6554 Linear Statistical Models II Prerequisite: Stat 6553.	3.0- 3.0	73267	LEC	1A	ARR	ARR	ARR		Wen,X
6841 Stochastic Processes Prerequisites: Stat 5643 and Math 3304 or 3329.	3.0- 3.0	73268	LEC	1A	MWF	10:00 - 10:50 am	ROLLA	000G4	Adekpedjou,A

Systems Engineering

5040 Oral Examination	0.0- 0.0	71648	IND	6A	ARR	ARR	ARR		Dagli,C
5101 System Engineering and Analysis Prerequisite: Graduate Standing.	3.0- 3.0	71424	LEC	1A	T	04:00 - 06:30 pm	LIB	000G14	Pape II,L
5212 Introduction to Neural Networks and Applications Prerequisites: Graduate Standing. (Co-listed with Elec Eng 5370)	3.0- 3.0	72072	LEC	1A	T	04:00 - 06:30 pm	MCNT	00130	Dagli,C
6050 Continuous Registration	1.0- 1.0	71334	IND	6A	ARR	ARR	ARR		Long,S
6099 Research Prerequisite: Graduate standing.	1.0-15.0	72299	IND	6A	ARR	ARR	ARR		Corns,S
	1.0-15.0	72300	IND	6B	ARR	ARR	ARR		Cudney,E
	1.0-15.0	72301	IND	6C	ARR	ARR	ARR		Dagli,C
	1.0-15.0	72302	IND	6D	ARR	ARR	ARR		Enke,D
	1.0-15.0	72303	IND	6E	ARR	ARR	ARR		Gosavi,A
	1.0-15.0	72304	IND	6F	ARR	ARR	ARR		Grantham,K
	1.0-15.0	72305	IND	6G	ARR	ARR	ARR		Guardiola,I
	1.0-15.0	72306	IND	6H	ARR	ARR	ARR		Konur,D
	1.0-15.0	72307	IND	6J	ARR	ARR	ARR		Long,S
	1.0-15.0	72308	IND	6K	ARR	ARR	ARR		Murray,S
	1.0-15.0	72309	IND	6L	ARR	ARR	ARR		Qin,R
	1.0-15.0	72310	IND	6M	ARR	ARR	ARR		Raper,S
6102 Information Based Design Prerequisites: Graduate Standing.	3.0- 3.0	71105	LEC	1A	T	04:00 - 06:30 pm	LIB	00316	Guardiola,I
6103 Economic Analysis for Systems Engineering Prerequisites: Graduate Standing.	3.0- 3.0	71409	LEC	1A	M	04:00 - 06:30 pm	LIB	00316	Yildirim,G
6104 Systems Architecting Prerequisites: Graduate Standing.	3.0- 3.0	71106	LEC	1A	M	04:00 - 06:30 pm	TMH	00260	Dagli,C

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6105 Complex Engineering Systems Project Management Prerequisites: Graduate Standing.	3.0- 3.0	71783	LEC	1A	T	07:00 - 09:30 pm	LIB	000G14	Hoffman,G
6196 Systems Engineering Capstone Prerequisites: Sys Eng 6105.	3.0- 3.0	71411	LEC	1A	M	07:00 - 09:30 pm	LIB	00316	Carson,R
6215 Adaptive Dynamic Programming Prerequisites: Elec Eng 5370 or Comp Eng 5310. (Co-listed with Comp Eng 6320, Elec Eng 6360, Mech Eng 6458 and Aero Eng 6458)	3.0- 3.0	73281	LEC	1A	T	07:00 - 09:30 pm	EECH	00239	Wunsch,D
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	73340	LEC	1A	MWF	03:00 - 03:50 pm	EECH	00239	Leopold,J
6321 Modeling Complex Systems Prerequisites: Graduate Standing. (Co-listed with COMP ENG 6410)	3.0- 3.0	73214	LEC	1A	W	04:00 - 06:30 pm	TMH	00260	Dagli,C
6322 Resilient Networks Prerequisites: Sys Eng 6410, Comp Eng 6410, or Comp Eng 5420. (Co-listed with COMP ENG 6510)	3.0- 3.0	72263	LEC	1A	Th	04:00 - 06:30 pm	LIB	000G14	Cetinkaya,E
6324 Wireless Ad hoc and Sensor Networks Prerequisite: Comp Eng 5430 or Comp Eng 5420 or equivalent. (Co-listed with Comp Eng 6420 and Elec Eng 6430)	3.0- 3.0	73284	LEC	1A	MWF	08:00 - 08:50 am	FUL	00107A	Zawodniok,M
6542 Model Based Systems Engineering Prerequisites: Graduate Standing. (Co-listed with COMP SCI 6102)	3.0- 3.0	73465	LEC	1A	F	04:00 - 06:30 pm	LIB	000G14	
6615 Financial Risk Management Prerequisite: Eng Mgt 1210 or 5210. (Co-listed with Eng Mgt 6215)	3.0- 3.0	73237	LEC	1A	M	04:00 - 06:30 pm	LIB	000G14	Enke,D

Technical Communication

1600 Introduction to Technical Communication Prerequisite: English 1120. (Co-listed with English 1600)	3.0- 3.0	71220	LEC	1A	MWF	09:00 - 09:50 am	CSF	00114	Dunstedter,L
	3.0- 3.0	71754	LEC	1B	MWF	10:00 - 10:50 am	CSF	00114	Kerwin,R
	3.0- 3.0	72803	LEC	1C	ARR	ARR	ARR		Roberson,E
									This course is a full semester course.
									UM Shared Course-Primary
2560 Technical Marketing Communication Prerequisites: English 1600 or Tch Com 1600 or English 1160. (Co-listed with English 2560)	3.0- 3.0	71839	LEC	1A	ARR	ARR	ARR		Wright,M
	3.0- 3.0	71155	LEC	1B	ARR	ARR	ARR		Wright,M
3000 Special Problems	0.0- 6.0	71242	IND	6A	ARR	ARR	ARR		Wright,M
3001 Special Topics	3.0- 3.0	73518	LEC	1A	ARR	ARR	ARR		Malone,E
									Business Writing Class will meet first 8 weeks of the semester.
									UM Shared Course-Secondary
3570 Writing in the Sciences	3.0- 3.0	73521	LEC	1A	ARR	ARR	ARR		Malone,E
									Course meets second 8 weeks of the semester.
									UM Shared Course-Secondary
4085 Internship Prerequisites: Must have completed 24 hours in the major core curriculum.	0.0- 6.0	71243	IND	6A	ARR	ARR	ARR		Wright,M
4410 Theory and Practice of Technical Communication Prerequisites: Tch Com 1600 or English 1600; Tch Com 2540 or English 2540.	3.0- 3.0	73449	LEC	1A	TTh	02:00 - 03:15 pm	CSF	00114	Northcut,K
4520 Help Authoring Prerequisites: One semester of college composition or technical writing, or graduate standing.	3.0- 3.0	73450	LEC	1A	TTh	09:30 - 10:45 am	CSF	00114	Wright,M
	3.0- 3.0	73522	LEC	1B	ARR	ARR	ARR		Wright,M
									This course is a full semester course.
									UM Shared Course-Primary
5000 Special Problems	0.0- 6.0	71780	IND	6A	ARR	ARR	ARR		Wright,M
5040 Oral Examination	0.0- 0.0	71580	IND	6A	ARR	ARR	ARR		Wright,M
5099 Research	0.0-15.0	71226	IND	6A	ARR	ARR	ARR		Northcut,K
	0.0-15.0	71512	IND	6B	ARR	ARR	ARR		Wright,M

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6600 Foundations of Technical Communication	0.0-15.0	73544	IND	6C	ARR	ARR	ARR		Malone,E
	3.0- 3.0	73452	LEC	1A	TTh	12:30 - 01:45 pm	CSF	00114	Northcut,K
	3.0- 3.0	73453	LEC	1B	TTh	12:30 - 01:45 pm	ARR		Northcut,K

Theatre

1142 Stage Productions, Performers Prerequisite: Participants selected by audition.	1.0- 1.0	72400	LAB	3A	ARR	ARR	ARR		Stanley,J
1143 Stage Productions, Technicians	1.0- 1.0	71401	LAB	3A	ARR	ARR	ARR		Gruenloh,T
2000 Special Problems	0.0- 6.0	71461	IND	6A	ARR	ARR	ARR		Shaw,K
	0.0- 6.0	71462	IND	6B	ARR	ARR	ARR		Stanley,J
3000 Special Problems Prerequisite: Consent of instructor required.	0.0- 6.0	71147	IND	6A	ARR	ARR	ARR		Shaw,K
	3.0- 3.0		LEC	1A	TTh	03:30 - 04:45 pm	CASTL	00143	Stanley,J
3241 Acting II Prerequisite: Theatre 2141.	3.0- 3.0	72082	LAB	3A	ARR	ARR	CASTL	00143	Stanley,J
3243 Entertainment Design	3.0- 3.0		LEC	1A	M	03:00 - 03:50 pm	ARR		Shaw,K
	3.0- 3.0	71555	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	73580	LEC	1A	TTh	09:30 - 10:45 am	CASTL	00143	Stanley,J
									Field Trip Required
4000 Special Problems	0.0- 6.0	71547	IND	6A	ARR	ARR	ARR		Shaw,K
4341 Directing Prerequisite: Theatre 2141.	3.0- 3.0	73516	LEC	1A	W	02:00 - 04:50 pm	ARR		Gruenloh,T