course	unique days	time room	instructor	course	unique day	s time	room	instructor
M E 338	MACHINE ELEM				• 17925 W		P ETC 2.108	MASADA, G
			mechanical elements, and their role ment modeling. Prerequisite: Engi-		• 17930 W	1200 - 100	P ETC 3.157 P ETC 2.108	MASADA, G
	neering Mechanics chanical Engineering		, andcredit or registration for Me-		• 17935 W		P ETC 3.157 P ETC 2.108	MASADA, G
	• 17825 MWF	800 - 900 ETC 2.108			• 17940 W		P ETC 3.157 P ETC 2.108	MASADA, G
M E 339	<ul> <li>17830 MWF</li> <li>HEAT TRANSFE</li> </ul>	100 - 200P ETC 2.136			M	300 - 500	P ETC 3.157	
W E 000	Steady and transie	nt heat conduction; forced and	natural convection; radiation; intro-		• 17945 W TH		P ETC 2.108 P ETC 3.157	MASADA, G
			equisite: Mechanical Engineering st C- in each; and credit or registra-		• 17950 W W		P ETC 2.108 P ETC 3.157	MASADA, G
	tion for Mechanical • 17835 TTH	Engineering 139L. 200 - 330P BUR 216			• 17955 W	1200 - 100	P ETC 2.108	MASADA, G
	HEAT TRANSFE			M E 343	T THERMAL-F	500 - 700 LUID SYSTEMS	P ETC 3.157	
			Steady and transient heat conduction to heat exchangers and ap-	0.0	Designed to a	ccommodate 35 or f		nalysis and design of integrated
	plications. Prerequisite: Mechanical Engineering 218 or 318M, 330, and 130L with a grade of at least C- in each; and credit or registration for Mechanical Engineering							modynamics, heat transfer, and flu- chicle engineering, materials pro-
	grade of at least C- 139L.	· in each; and credit or registrat	ion for Mechanical Engineering			onmental control, ar I30L, 339, and 139L		. Prerequisite: Mechanical Engi- at least C- in each
M E 4001	• 17840 TTH	930 - 1100 ETC 2.136			• 17960 TTI	H 330 - 500	P ETC 2.132	WANG, Y
M E 139L		L HEAT TRANSFER in concepts, uncertainty analys	is, and systems analysisas applied	M E 344	M DYNAMIC S	500 - 600 SYSTEMS AND C	P ETC 7.146 ONTROLS	
	to thermodynamics, fluid mechanics, and heat transfer systems. Prerequisite: Credit or registration for Mechanical Engineering 339.				Lumped physi	cal system models;	electrical, fluid, n	nechanical, and thermal system
	• 17845 M	300 - 400P JGB 2.324	SHI, L					avior;introduction to feedback con- hanical Engineering 205 or 318M,
	• 17850 M	800 - 1000 ETC 7.162 300 - 400P JGB 2.324	SHI, L					n; Mechanical Engineering 340 and or registration for Mechanical En-
	• 17855 M	1000 - 1200 ETC 7.162 300 - 400P JGB 2.324	SHI, L		gineering 144	L or 244L.		
	F	1000 - 1200 ETC 7.162			• 17965 TTI • 17970 TTI		0 ETC 3.108 P ETC 3.108	
	• 17860 M W	300 - 400P JGB 2.324 1200 - 200P ETC 7.162	SHI, L	M E 1441	• 17975 MV		P ETC 3.112	
	• 17865 M TH	300 - 400P JGB 2.324 1200 - 200P ETC 7.162	SHI, L	M E 144L		SYSTEMS & CON ngineering systems,		n, and assessment of results with
	• 17870 M W	300 - 400P JGB 2.324 200 - 400P ETC 7.162	SHI, L					nd second-order systems, system ontrol principles; hands-on experi-
	• 17875 M	300 - 400P JGB 2.324	SHI, L		mentation with	n mechanical, fluid, e	electrical, and ma	agnetic systems; data acquisition ter-based analog-to-digital and digi-
	• 17879 M	200 - 400P ETC 7.162 300 - 400P JGB 2.324	SHI, L		tal-to-analog o	conversion; theoretic	al and practical	orinciples governing the design and
	T • 17880 M	800 - 1000 ETC 7.162 300 - 400P JGB 2.324	SHI, L		chanical Engir	neering 344.	·	ite: Credit or registration for Me-
	• 17881 M	400 - 600P ETC 7.162 300 - 400P JGB 2.324	SHI, L		• 17980 F M		P ETC 2.108 0 ETC 4.160	LONGORIA, R
	TH • 17882 M	1200 - 200P ETC 7.162 300 - 400P JGB 2.324	SHI, L		• 17985 F W		P ETC 2.108 0 ETC 4.160	LONGORIA, R
	TH	600 - 800P ETC 7.162 300 - 400P JGB 2.324			• 17990 F TH		P ETC 2.108 0 ETC 4.160	LONGORIA, R
	• 17883 M T	600 - 800P ETC 7.162	SHI, L		• 17995 F	1200 - 100	P ETC 2.108	LONGORIA, R
	• 17884 M F	300 - 400P JGB 2.324 400 - 600P ETC 7.162	SHI, L		• 18000 F	1200 - 100	0 ETC 4.160 P ETC 2.108	LONGORIA, R
	• 17885 M W	300 - 400P JGB 2.324 600 - 800P ETC 7.162	SHI, L		• 18005 F		P ETC 4.160 P ETC 2.108	LONGORIA, R
	• 17886 M	300 - 400P JGB 2.324	SHI, L		W		P ETC 4.160	LONGORIA, R
	• 17887 M	800 - 1000 ETC 7.162 300 - 400P JGB 2.324	SHI, L		• 18010 F M	400 - 600	P ETC 2.108 P ETC 4.160	,
	F • 17888 M	1200 - 200P ETC 7.162 300 - 400P JGB 2.324	SHI, L		• 18015 F T		P ETC 2.108 P ETC 4.160	LONGORIA, R
	TH	400 - 600P ETC 7.162			• 18020 F W	1200 - 100	P ETC 2.108 P ETC 4.160	LONGORIA, R
	• 17889 M W	300 - 400P JGB 2.324 1000 - 1200 ETC 7.162	SHI, L		• 18025 F	1200 - 100	P ETC 2.108	LONGORIA, R
M E 340	MECHATRONIC			M E 350	TH MACHINE T	400 - 600 OOL OPERATN	P ETC 4.160	
	Theory and application of electrical circuits, electronics, and electromechanical devic- es; concepts in electrical power transmission; instrumentation; feedback; integration of			W E 000	Offered on the	e letter-grade basis o	only. Hands-on m	nanual and computer-numerical-
			ngineering systems (mechatronics). neering 340 may not both becount-					tool selection for production. Mehine Tool Operations for Engineers)
	ed. Prerequisite: M		L, and 103N with a grade of at least		may not both • 18030 W		0 ETC 5.132	CULLINAN, M
	• 17890 TTH	1100 - 1230P ETC 2.136	ai Engineening 140E.		TTI	H 900 - 120	0 ETC 1.210	
M E 140L	• 17895 TTH MECHATRONIC	330 - 500P ETC 2.136 S LABORATORY			• 18035 W TTI		0 ETC 5.132 P ETC 1.210	CULLINAN, M
1.02	Hands-on laborator	ry using hand-held and bench-	op electronic test and prototyping	M E 353		ING FINANCE	Fuel vetine the fi	nancial impact of ancincation dasi
	equipment for circuits and mechatronics applications; computer-aided instrumentation and data acquisition; laboratory study in design, prototyping, and testing with electrical and electronics components and electromechanical devices. Prerequisite: Credit or registration for Mechanical Engineering 340.				Additional hour(s) to be arranged. Evaluating the financial impact of engineering decisions. Comparing alternatives with cash flow analysis considering rate of return, infla-			
								lanaging complex projects with ac- ng cash flows. Methods include
	• 17900 W	1200 - 100P ETC 2.108 900 - 1100 ETC 3.157	MASADA, G		probabilistic a	nalysis and simulation	on. Prerequisite:	Mathematics 408D or 408M, Megrade of at least C- in each.
	• 17905 W	1200 - 100P ETC 2.108	MASADA, G		• 18040 TTI	H 330 - 500	P CPE 2.214	BICKEL, J
	• 17910 W	900 - 1100 ETC 3.157 1200 - 100P ETC 2.108	MASADA, G		• 18045 TTI	H 330 - 500	0 ETC 2.140 P CPE 2.214	BICKEL, J
	W • 17915 W	900 - 1100 ETC 3.157 1200 - 100P ETC 2.108	MASADA, G		• 18050 TTI		0 ETC 3.112 P CPE 2.214	BICKEL, J
	M • 17920 W	1200 - 200P ETC 3.157 1200 - 100P ETC 2.108	MASADA, G		M • 18055 TTI		0 ETC 2.140 P CPE 2.214	BICKEL, J
	T	1200 - 1001 ETC 2:100 1200 - 200P ETC 3:157			W		0 ETC 2.140	, -