LAB FEE

## **Materials Science & Engineering**

	Materials Science Engineering (MATSCIE)						
<b>220</b> 10576	Intro Mat & M AR LEC 1		1130-1230PM	1571 GCBI	4.00	ENFORCED	
10576		00 MVVF 01 TH	1130-1230PM	1571 GGBL 1003 EECS	Sevener Luce		
10578		02 TH	130-230PM	1003 EECS	Luce		
10579		03 TH	1030-1130AM	185 EWRE	Snyder		
27345		04 TH	1130-1230PM	1123 LBME	Repetto		
29853	PRW DIS 1		130-230PM	107 GFL	Steinke		
32557			1130-130PM	224 GFL	Yalisove	boood and project	
			FIRST AND SECOND duction to the material is			based and project	
			ng activities. There will be				
Students v	vill be required t	o purchase an electi	onic textbook via the Ca	anvas site that will be	e live in August.		
			bscription to Learning (				
the course	e. Homework is	graded for effort and	honesty - not accuracy. ben book, open internet,	Quizzes are graded	by averaging a	closed	
hard work	and honesty on	homework and exa	ns without the angst of	100% summative as:	sessment Do no	ı ıt nurchase the	
book at thi	is time. More inf	ormation will be avai	lable on the following w	ebsite:	occomoni. Do ne	a paronaco uno	
https://java	a.engin.umich.e	du/220F19/	ŭ				
25042			830-930AM	1670 BEYSTER	Heron		
25235 25236	PRW DIS 3		1030-1130AM	1014 DOW	Horst		
25230	P RW DIS 3 Prin Engr Ma		130-230PM	1018 DOW	Horst <b>4.00</b>	ENFORCED	
10580	AR LEC 1		930-1030AM	1571 GGBL	Wynarsky	ENI GNOED	
		processing relations	hips in engineering mate			S.	
10581	PRW DIS 1		1130-1230PM	1006 DOW	Swerdlow		
19677		02 TH	130-230PM	104 EWRE	Swerdlow		
19775 19676	PRW DIS 1 PRW DIS 1		130-230PM 1130-1230PM	1010 DOW 104 EWRE	Huang Yao		
280	MSE Ugrad R		1130-12301 W	104 LVVIIL	1.00-3.00	ADVISORY	
	I IND +		ARR	ARR		7.2 1.0 0 1.1.	
330	Thermo of Ma				4.00	ADVISORY, ENFORCED	
10588	PR LEC 0		12-130PM	1010 DOW	Shahani	ADVICORY ENEODOED	
330	Thermo of Ma		1230-130PM	133 CHRYS	4.00	ADVISORY, ENFORCED	
350	Structures of		1200-1001 W	100 0111110	4.00	ENFORCED	
10582	PRW LEC 0		10-1130AM	133 CHRYS	Qi	00	
350	Structures of				4.00	ENFORCED	
000	PRW LEC 0		130-230PM	1200 EECS	0.00	A D.//00 D.//	
<b>360</b> 10583	Materials Lab		230-330PM	224 GFL	3.00 Chambers	ADVISORY	
			ndergraduate Lab, sec				
	PRW LAB 0	02 T	130-530PM	ARR	Derby		
14258	PRW LAB 0		130-530PM	ARR	Temeche		
10585	PRW LAB 0	04 TH	12-4PM	ARR	Rieland	ENFORCER	
<b>410</b> 14504	Biomaterials PDR LEC 0	01 MW	10-1130AM	1014 DOW	3.00	ENFORCED	
	14504 PDR LEC 001 MW 10-1130AM 1014 DOW Mehta, Moy, Crochran For permission to register, contact Maria Steele at msteele@umich.edu.						
412	ssion to reaister.				Mehta, Moy,	Crocnran	
712	ssion to register. <b>Polymeric Ma</b>	contact Maria Steel			Mehta, Moy, 3.00	ENFORCED	
10587	Polymeric Ma	contact Maria Steel <b>terials</b> 01 TTH			<b>3.00</b> Love	ENFORCED	
10587 <b>420</b>	Polymeric Ma PR LEC 0 Mech Behavio	contact Maria Steel terials 01 TTH or Matrls	e at msteele@umich.ed 830-10AM	u. 1017 DOW	3.00 Love 3.00		
10587 <b>420</b> 14677	Polymeric Ma PR LEC 0 Mech Behavio PR LEC 0	contact Maria Steel terials 01 TTH or Matrls 01 TTH	e at msteele@umich.ed	u.	3.00 Love 3.00 Sevener	ENFORCED ADVISORY, ENFORCED	
10587 <b>420</b>	Polymeric Ma PR LEC 0 Mech Behavio	contact Maria Steel terials 01 TTH or Matrls 01 TTH uches MSE	e at msteele@umich.ed 830-10AM	u. 1017 DOW	3.00 Love 3.00	ENFORCED	
10587 <b>420</b> 14677 <b>454</b>	Polymeric Ma PR LEC 0 Mech Behavie PR LEC 0 Comp Approx PR LEC 0 Comp Approx	contact Maria Steel terials 01 TTH or Matrls 01 TTH iches MSE 01 W iches MSE	e at msteele@umich.ed 830-10AM 230-4PM 12-130PM	u. 1017 DOW 1010 DOW ARR	3.00 Love 3.00 Sevener 3.00	ENFORCED ADVISORY, ENFORCED	
10587 <b>420</b> 14677 <b>454</b> 32387 <b>454</b>	Polymeric Ma PR LEC 0 Mech Behavion PR LEC 0 Comp Approx PR LEC 0 Comp Approx PR LEC 0	contact Maria Steel terials TTH TH TM TH TH TH TH CH TH	e at msteele@umich.ed 830-10AM 230-4PM 12-130PM 1230-2PM	u. 1017 DOW 1010 DOW ARR ARR	3.00 Love 3.00 Sevener 3.00 Thornton 3.00	ENFORCED ADVISORY, ENFORCED ENFORCED	
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CAT#	Course Title				CR	PREREQ	LAB FEE
Class #		DAYS	TIME	LOCATION	INSTRI	UCTOR	

16069	P W LEC 001	MW	10-1130AM	1006 DOW	Kioupakis	
550	Fund Mat Sci & Ei	ng			3.00	ADVISORY
24631	P W LEC 001	MW	830-10AM	2150 DOW	Laine	
554	Comput Methods				3.00	
25171	P LEC 001	MW	1130-1PM	1018 DOW	Kieffer	
560	Structure Matrls				3.00	<b>ADVISORY</b>
17901	P LEC 001	MW	3-430PM	3433 EECS	Poudeu-Pou	ıdeu
562	Electron Microspy	/ I			4.00	ADVISORY
30356		MW	1-230PM	1005 EECS	Hovden	
Lab for MSE 562 will be held in the MC@ Center of NCRC North Campus Research Center Building 22						
30358	P LAB 002	T	130-430PM	ARR	Hovďen	
593	MSE Special Topic	cs			3.00	ADVISORY
35434	P W LEC 001	MW	12-130PM	1690 BEYSTER	Singh	
28572	P W LEC 033	TTH	1230-2PM	1008 EECS	Shtein	
The Greatest Materials and Inventions Across Civilizations:						
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The Greatest Materials and Inventions Across Civilizations:
Stone, Ceramic, Bronze, Iron, Gunpowder, Concrete, Steel, Silicon? Materials that defined entire epochs. What do we know about humans? mastery of these materials? How did they change life? Why did they persist? What replaced them and why? Spears, Textiles, Canoes, Alphabet, Printing Press, Steam Engine, Internal Combustion Engine, Pneumatic Tire, Pencil, Telegraph, Electric Lights, Radio, Diode, Transistor, Fiber-optics, Corn Syrup, Syringe, Rockets, iPhone? Devices and constructs that leveraged materials and processes of the day to enable leaps in human capability. What problems were their inventors attempting to solve? What new businesses did they enable? What new problems did they create for humans?

890 Research Problems

690	Research Problems		1.00-16.00		
	D IND +	ARR	ARR		
890	Collog in Mat Sci			1.00	
19126	PR SEM 001 F	10-1130AM	1013 DOW	Shahani, Hovden, Qi, Heron	
990	Diss-Precand			1.00-8.00 ADVISORY	
	D IND +	ARR	ARR		
995	Diss-Cand			8.00 ENFORCED	
	DR IND +	ARR	ARR		